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SYSTEM OF NATIONAL ACCOUNTS

Input-Output Tables

THE INPUT-OUTPUT STRUCTURE OF  
THE CANADIAN ECONOMY, 1961

VOLUME 1

Published by Authority of

The Minister of Industry, Trade and Commerce

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# THE INPUT-OUTPUT STRUCTURE OF THE CANADIAN ECONOMY, 1961

VOLUME I

Published by Authority of  
The Minister of Industry, Trade and Commerce



P R E F A C E

The preliminary 1961 Input-Output Tables published in this Volume and in Volume 2 ("The Input-Output Structure of the Canadian Economy, 1961 - Volume 2", catalogue no. 15-502, forthcoming) include a set of Input-Output Accounts which form part of the System of National Accounts, and tables which can be used for a variety of analytical purposes. Volume 1 includes tables for two aggregations of the system - 16 industries by 40 commodities, and 65 industries by 65 commodities - while Volume 2 will consist of tables for a third aggregation - 110 industries by 197 commodities. The descriptive material and classification systems for all three aggregations are contained in Volume 1.

This is the second set of Canadian Input-Output Tables to be published by the Dominion Bureau of Statistics; the first was for the year 1949. In addition to being more detailed, the 1961 Tables have been constructed within a conceptual framework which differs considerably from that of the 1949 Tables.

The Input-Output Research and Development Staff is under the direction of Mr. T. Gigantes. Other Staff economists who have made substantial contributions to the studies are I.H. Midgley, P.R. Pitts, Mrs. S. Nijhowne, A.M. Friend, C. Gaston, R. Hoffman, K. Lal, S. O'Brien and Mrs. L. Emmerson. The text of this Volume was written by T. Gigantes and P.R. Pitts.

The Staff has benefitted from the assistance of many individuals in other Bureau divisions, and from consultation with outside researchers, particularly Professor T.I. Matuszewski of Université Laval, Professor K. Levitt of McGill University, Professor G. Rosenbluth of the University of British Columbia, and Professor J.A. Sawyer of the University of Toronto.

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Dominion Statistician.





## THE SYSTEM OF NATIONAL ACCOUNTS

In Canada, the National Accounts have been developed since the close of the Second World War in a series of publications relating to their constituent parts. These have now reached a stage of evolution where they can be termed a "System of National Accounts". For purposes of identification, all publications (containing tables of statistics, descriptions of conceptual frameworks, and descriptions of sources and methods) which make up this System will now carry the term "System of National Accounts" as a general title.

The System of National Accounts in Canada consists of several parts. The annual and quarterly Income and Expenditure Accounts (included with catalogue nos. carrying the prefix 13) were, historically speaking, the first set of statistics to be referred to with the title "National Accounts" (National Accounts, Income and Expenditure). The Balance of International Payments data, (catalogue nos. with prefix 67), in their more summary form, are also part of the System of National Accounts and they, in fact, pre-date the Income and Expenditure Accounts.

Greatly expanded structural detail on industries and on goods and services is portrayed in the Input-Output Tables of the System (catalogue nos. with prefix 15). The Indexes of Real Domestic Product by Industry (included with catalogue nos. carrying the prefix 61) provide "constant dollar" measures of the contribution of each industry to gross domestic product at factor cost. Inputs and outputs are related in Productivity Studies (catalogue nos. with prefix 14).

Both the Input-Output Tables and Indexes of Real Domestic Product by Industry use the establishment as the primary unit of industrial production. Measures of financial transactions are provided by the Financial Flow Accounts (catalogue nos. with prefix 13). Types of lenders and financial instruments are the primary detail in these statistics, and the legal entity is the main unit of classification of transactors. Also, provision is made in the System for incorporation of balance sheet (wealth) estimates when such data are sufficiently developed.

The System of National Accounts provides an overall conceptually integrated framework in which the various parts can be considered as interrelated sub-systems. At present, direct comparisons amongst those parts which use the establishment as the basic unit and those which use the legal entity can be carried out only at highly aggregated levels of data. However, the Dominion Bureau of Statistics is continuing research on enterprise-company-establishment relationships; it may eventually be feasible to reclassify the data which are on one basis (say the establishment basis) to correspond to the units employed on another (the company or the enterprise basis).

In its broad outline, the Canadian System of National Accounts bears a close relationship to the international standard as described in the United Nations publication, "A System of National Accounts" (Studies in Methods, Series F., No. 2, Rev. 3, Statistical Office, Department of Economic and Social Affairs, United Nations, New York, 1968). In the future, a document on the conceptual framework of the Canadian System of National Accounts will be prepared for publication by the Dominion Bureau of Statistics. This document will furnish the broad theoretical outline of the System. The finer conceptual details, the statistical tables, and the descriptions of sources and methods as they pertain to the individual parts of the System, will appear in the various regular and occasional publications relating to those parts.





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# CHAPTER 1

## INTRODUCTION

This Volume and Volume 2 (The Input-Output Structure of the Canadian Economy, 1961 - Volume 2, D.B.S. cat.#15-502) contain preliminary estimates of Input-Output Accounts for Canada for the year 1961 and some analytical tables based on these Accounts. They are the first in a series of publications reporting on this work. The data are preliminary because some of the estimates have not been reconciled with the revised estimates of the Income and Expenditure Accounts which are being prepared.

In addition to revisions of the preliminary Input-Output estimates, subsequent publications will present detailed information on the structure of final expenditure and a number of supplementary analytical models.

The content of this Volume is as follows: the present chapter provides a description of the basic structure of the 1961 Input-Output Accounts, /1/ outlines the relationship of these Accounts to the System of National Accounts, and gives a brief introduction to their uses in models of the economy; Chapter 2 presents a description of the fully detailed conceptual framework for the 1961 Input-Output Accounts (the content of Chapter 2 is concerned with the complete set of 1961 Tables, and not only with the data in Volumes 1 and 2 which are incomplete in final demand detail); Chapter 3 gives a non-mathematical description of the use of this information for analysis; Chapter 4 contains a description of the tables published in this Volume and in Volume 2; Chapter 5 discusses the sector, commodity and

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/1/ The Tables for 1961 were preceded in Canada by Tables for the year 1949. See D.B.S. cat.#13-513 [1960]. The accounting structures of the two sets of Tables are quite different. The consequences of these differences for the analytical uses of the Tables are discussed in Appendix A.



industry classification systems for the 1961 Input-Output Tables (including those for tables appearing in Volume 2) and some supplementary definitions of industries and commodities. Appendix A is an appendix to Chapter 3 which contains a mathematical discussion of Input-Output models; Appendix B contains the lists of industries and commodities of the 1961 Input-Output Tables.

The tables published in Volume 1 relate to two aggregations of the detailed system, one for 16 industries and 40 commodities, and the second for 65 industries and 65 commodities; Volume 2 is, in effect, a continuation of Volume 1; it contains the tables relating to a third aggregation (110 industries and 197 commodities).

### 1.1 The Input-Output Accounting Framework and Its Relationship to the System of National Accounts

Input-Output Tables form part of a broader System of National Accounts which includes (in addition to Input-Output Tables) the Income and Expenditure Accounts, the Indexes of Real Domestic Product by Industry, Productivity Studies, the Financial Flow Accounts, the Balance of International Payments and, potentially, balance sheets showing the assets and liabilities of the economy. The System of National Accounts was originally developed to satisfy the need for consistent and comprehensive measures of economic activity. As new demands for data for economic analysis have grown over the years, the conceptual framework has been extended and refined; at the same time flows of data have been established to fill in the System through the exploitation of existing sources of information, the development of new sources, and the design of new estimating techniques.

The best known Accounts of the System are the Income and Expenditure Accounts which were designed, in part, to provide current and comprehensive,

though relatively aggregative measures of the output of the economy in two ways: (i) as the values of the "final" expenditures on goods and services by the various sectors of the economy, less total imports of goods and services; (ii) as the incomes accruing to (or the costs of) primary factors of production - labour and capital -engaged in the production of goods and services, plus certain non-factor costs. As is explained below, the Income and Expenditure Accounts are closely related to the Input-Output Accounts.

Another part of the System related to the Input-Output Accounts is the Indexes of Real Domestic Product by Industry,<sup>/1/</sup> which provide current measures of the contribution of each industry to total output in "constant dollars" (see below).

A description of the fully detailed conceptual framework for the 1961 Input-Output Accounts appears in Chapter 2. In what follows, a highly simplified numerical example of the Input-Output accounting framework is presented (see Diagram 1) and the relationship with the Income and Expenditure Accounts and with the Indexes of Real Domestic Product by Industry is described.

The 1961 Input-Output Tables for Canada contain two sets of inter-related accounts. The first details the supply of and demand for individual commodities (goods and non-factor services). The second contains the commodity outputs of industries and the complete costs of production of industries (including profits).

The presentation of accounts does not follow customary accounting practice. Individual accounts for each industry and each commodity, with debits on the left and credits on the right, are replaced by a tabular arrangement in which a single entry appears in two accounts at the same time - as a debit in the column and a credit in the row.

A major feature of the 1961 Input-Output Accounts is that the inputs and outputs of industries are presented in separate tables; both inputs and outputs are classified by commodity. Commodities are clearly distinguished from industries, the number of commodities exceeding the number of industries.<sup>/2/</sup>

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<sup>/1/</sup> See D.B.S. cat.#61-506 [1968].

<sup>/2/</sup> This is one of the main differences between the 1961 and 1949 Tables.

# D I A G R A M    1

Hypothetical Example of a Simplified Set of Input-Output Accounts  
(for an economy in which there are three industries which produce five commodities)

		Commodities					Industries			Final Demands				TOTAL
		1	2	3	4	5	A	B	C	P	G	CF	X	
Commodities	1						3	3	1	3	1		7	18
	2						7	4	2	10	2	5	11	41
	3						2	2	1	5		4		14
	4						8	10	4	10	3			35
	5						3	3	1	10	1	2	3	23
Industries	A	15	22	8	1									46
	B		1	4	30									35
	C			2	3	22								27
Imports		3	18		1	1								23
Indirect Taxes							3	2	1	9	2	2		19
Wages & Salaries							14	8	12		13			47
Surplus							6	3	5					14
TOTAL		18	41	14	35	23	46	35	27	47	22	13	21	

## Final Demand Categories

- P - Personal Expenditure on Consumer Goods and Services
- G - Government Expenditure on Goods and Services
- CF - Business Gross Fixed Capital Formation
- X - Exports of Goods and Services

Note: This example abstracts from the following details which are introduced in Chapter 2:

- Changes in inventories
- Net income of unincorporated business
- Valuation adjustments
- Supplementary labour income; military pay and allowances
- Production by final demand sectors
- Import duties; subsidies
- The distinction between competing and non-competing imports



In the commodity accounts (columns and rows 1 - 5), the supply /1/ for a commodity, shown in its column, is subdivided into the production by each domestic industry and the amount imported. The demand for a commodity, shown in its row, is subdivided into the consumption by each domestic industry which uses it as an intermediate input and the demands of final consumers - persons, governments, industries (on capital account) and non-residents (exports).

The industry accounts are shown in rows and columns A, B and C. The total gross output of an industry, classified by commodity, is shown in the industry's row. The inputs of an industry are shown in the industry's column; these are subdivided into intermediate and primary inputs. In this example, intermediate inputs consist of current account inputs of commodities consumed in the process of production; primary inputs consists of indirect taxes, wages and salaries and "surplus" which is defined as the sum of the "costs" of, or incomes accruing to, capital employed in production in the form of profits and other investment income, plus the cost of the consumption of the stock of fixed capital employed, that is, depreciation.

Entries which occur at the intersections of the commodity and industry rows and columns are shared by the commodity accounts and the industry accounts. The basic accounting identities of the system are as follows:

For each commodity:      total supply = total demand

For each industry:      total output = total inputs (intermediate plus  
primary inputs)

The latter identity holds because the balancing item — profit — is included in primary inputs.

---

/1/ The terms "supply" and "demand" refer, respectively, to the "value of the quantity supplied" and the "value of the quantity demanded," and not to supply and demand functions. Thus the equality of supply and demand is an identity, and does not represent an equilibrium position derived from the intersection of supply and demand functions. Since there is no provision for inventory changes in this example, "supply" is equal to the value of the quantity domestically produced plus the value of the quantity imported; "demand" is equal to the value of the quantities used by industries as intermediate inputs plus the values of the quantities purchased for final uses (final demands).

The measures of production of the Income and Expenditure Accounts, and their main components, can be calculated from the Input-Output Accounts by aggregating certain detailed parts of the latter. On the expenditure side, the relevant measure is Gross Domestic Expenditure at Market Prices ( $GDE_m$ ).<sup>/1/</sup> The measure is "gross" because the cost of fixed capital consumed during the year has not been deducted. It is however, a "net" output measure, and therefore avoids duplication, to the extent that intermediate goods and services used by industries in the production of other goods and services are excluded. For example, the value of flour used by the baking industry to produce the bread which is purchased by persons is counted only once —as part of the value of the bread.

In the Income and Expenditure Accounts,  $GDE_m$  is estimated directly as the sum of final expenditures at market prices by persons, governments, industries (on capital account) and non-residents (exports), less total purchases of goods and services from non-residents (imports). In Diagram 1 these expenditure totals appear as the sums of the entries in the columns of the Input-Output Accounts which refer to final demand categories, and the sum of entries in the import row:

Personal Expenditure on Consumer Goods and Services .....	47
Government Expenditure on Goods and Services .....	22
Business Gross Fixed Capital Formation .....	13
Exports of Goods and Services .....	21
Deduct: Imports of Goods and Services .....	-23
Gross Domestic Expenditure at Market Prices .....	<u>80</u>

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/1/ The Input-Output Accounts are on a "domestic" basis; they are concerned with the costs of production of, and the expenditure on the output of, producing units in the domestic economy, regardless of the residence of the primary factors of production used by those producing units. The main tables of the Income and Expenditure Accounts are on a "national" basis —see Tables 1 and 2 of D.B.S. cat.#13-502 [1962] and of D.B.S. cat.#13-201 [annual]. The former publication contains the concepts, sources and methods of the currently published Income and Expenditure Accounts. Table 4 in each of these publications shows the relationship between Gross National Product and Gross Domestic Product. Aside from the "residual error of estimate" in the Income and Expenditure Accounts (there is no residual error in the 1961 Input-Output Tables), one must add incomes received from non-residents and subtract incomes paid to non-residents in order to move from the measure of Gross Domestic Product to that of Gross National Product.

For the economy as a whole, the comparable measure of production on the income side of the Income and Expenditure Accounts is Gross Domestic Product at Market Prices ( $GDP_m$ ). As calculated from Diagram 1,  $GDP_m$  is equal to the row sums for wages and salaries, surplus, and indirect taxes:

Wages and Salaries .....	47
Surplus .....	14
Sub-total: Gross Domestic Product at Factor Cost .....	(61)
Indirect Taxes .....	<u>19</u>
Gross Domestic Product at Market Prices .....	<u>80</u>

Again, the measure of  $GDP_m$  avoids duplication by excluding the intermediate inputs of industries in the form of current account goods and services used in production; this is appropriate because, for each industry, these inputs represent the accumulated values of gross domestic product originating in domestic industries at earlier stages of production, plus the value of foreign commodities (imports) used at earlier stages of production or directly imported by that industry.

The necessary identity of  $GDE_m$  and  $GDP_m$  is readily apparent from the following:

Total outputs of

$$\begin{aligned}
 \text{all industries} &= \text{total commodity outputs of all industries} \\
 &= \text{total commodity supply} - \text{total commodity imports} \\
 &= (a) \text{ total final demands} - \text{total imports} + \text{total intermediate demands}
 \end{aligned}$$

Total outputs of

$$\begin{aligned}
 \text{all industries} &= \text{total inputs of all industries} \\
 &= (b) \text{ total primary inputs} + \text{total intermediate inputs}
 \end{aligned}$$

Since (a) = (b) and since total intermediate demands = total intermediate inputs, subtraction of the duplication in output represented by the total of intermediate entries from both (a) and (b) gives:

$$\text{Total Final Demands} - \text{Total Imports} = \text{Total Primary Inputs}$$

The above equations do not provide for primary inputs related to final demand categories. Since these are, at the same time, both primary inputs and final demands, the identity of  $GDE_m$  and  $GDP_m$  is maintained when they are added in.

The most frequently used measure of output originating by industry is Gross Domestic Product at Factor Cost ( $GDP_f$ ), which excludes indirect taxes but includes capital consumption allowances. There is no unique way of



distributing indirect taxes by industry (this applies particularly to taxes on commodities). The industrial distribution of indirect taxes shown in any set of Input-Output Tables is dependent on the conventions chosen for the "routing" and valuation of commodities in those Tables (see Chapter 2). Hence it is not possible to make a meaningful distribution by industry of Gross Domestic Product at Market Prices. If estimates of capital consumption by industry were available, it would be possible to calculate Net Domestic Product at Factor Cost by industry, i.e. the cost of (or the incomes accruing to) the primary factors of production of each industry.

In principle, Input-Output Tables can also be related to the "constant dollar" Expenditure Accounts, and to the Indexes of Real Domestic Product by Industry. Here, the objective is to try to remove the influence of price changes in measuring and comparing levels of output over time. If a series of Input-Output Tables for different years were available, together with detailed information on commodity prices, then the values in the commodity accounts of the Tables could be "deflated", that is, expressed in the prices which obtained in the year chosen as the base period. Constant dollar expenditures would be represented by the sums of the constant dollar final expenditure categories less constant dollar imports of the deflated Input-Output Tables.

There is no meaningful way to deflate every category of income directly. However, the constant dollar gross domestic product of the economy classified by industry could be estimated by subtracting, for each industry, its constant dollar intermediate inputs and indirect taxes from its constant dollar total output. The series of these values over time, expressed in index number form, would be equivalent to the Indexes of Real Domestic Product by Industry, that is, to indexes of constant dollar Gross Domestic Product at Factor Cost by industry./1/

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/1/ Table 21 of D.B.S. cat. #13-201 [annual] shows estimates of Gross Domestic Product at Factor Cost in the prices of the current year for each of fifteen industrial groups. Tables 22 to 24 give the comparable industrial detail for some of the major components of GDP<sub>f</sub>. However, the figures for any industry are not completely consistent because wages, salaries and supplementary labour income and the inventory valuation adjustment are calculated from establishment returns while the other components are calculated from company returns. On the other hand, the Input-Output Tables and the Indexes of Real Domestic Product by Industry are calculated almost completely on an establishment basis (see Section 2.1 and Chapter 5).

## 1.2 Analytical Uses of Input-Output Tables

As a description of the production, expenditure and international trade of the economy, Input-Output Tables are useful to business, academic and government analysts because they provide the only comprehensive and detailed presentation of the origin and disposition of individual commodity groups and of the cost structures of individual industries. They are also used as the basis for models of the operation of the economy. The accounting relationships embodied in Input-Output Tables describe the structure of demand and of productive activity in a particular year. It has been found that many of these relationships have considerable stability even when the conditions under which they were first observed change.

The construction of economic models based on the information contained in Input-Output Tables rests on the observation that the process of production, in modern technological societies, is roundabout. To produce an automobile, for example, requires the efforts not only of those who are in the automobile industry, but also of those who are concerned with the production of steel, aluminum, rubber, textiles and the myriad of other materials and services which are embodied in automobiles. In turn the production of steel, aluminum, rubber, etc. is only possible if yet other materials and services have been produced and are available. Thus the production of automobiles, and indeed of any other product, implicates a long chain of production which links many of the human, material and technological resources of the economy.

Now if the human, material and service inputs into automobiles are stable in relation to the output of automobiles, and if, in turn, the requirements for producing steel, aluminum, rubber, etc., are stable, and so forth, then through mathematical models based on Input-Output Tables it is possible to estimate the impact of the demand for automobiles not only on the production of the automobile industry but also on the production of all the other industries which are involved, however indirectly, in the production of automobiles; similar estimates can be made for any other commodity. Input-Output models thus make it possible to study technological interdependence and to trace the propagation of demand through the economic system. Moreover, these models can be formulated so that the incomes and revenues generated by

industrial activity in turn determine the level and composition of a large proportion of final demand. In this way, Input-Output models can be made to simulate the circular flow of economic activity.

Of course, Input-Output models present a simplified account of economic interdependence. Since their inception they have undergone many changes designed to make them more realistic, but it is inevitable that they will continue to be very simple constructs compared to the complexity of economic systems. In this they are not unique; all models of economic behaviour represent a simplification of reality.

Because Input-Output models present economic relations in a highly disaggregated form, they lend themselves to analyses which are not possible with aggregative models, particularly where the interdependence of sectors of the economy is being studied. They have been used throughout the world for a variety of analytical purposes by governments, businesses and universities.



## CHAPTER 2

### THE DETAILED ACCOUNTING FRAMEWORK

Diagram 2 contains a schematic presentation of the detailed accounting framework for the 1961 Input-Output Tables. There are many ways of presenting the Input-Output Accounts in tabular format. The one shown here is not necessarily the most compact,/1/ but is consistent with the recommended international practice established by the United Nations Statistical Commission in its revision of the System of National Accounts./2/

The diagram depicts a matrix which has been partitioned into eighty-eight submatrices, forty-one of which can, in principle, contain accounting entries in the 1961 framework. The diagram does not illustrate the relative sizes of the submatrices; some are very large, while others involve only one row or one column.

The entries in these submatrices represent, for the most part, transactions among industries, persons, governments and non-residents. These transactions are classified according to categories of transactors, according to the objects being exchanged (which in this system are mainly commodities) and according to the purposes for which one of the transactors (the buyer) enters into transaction. Since any transaction involves two transactors and can be classified by object and by the purpose of one of the transactors, a simultaneous classification of transactions according to all these criteria would require an enormous diagram. Moreover the information required for such a classification would not be available. Diagram 2 therefore consolidates some of the classifications of transactions. These consolidations are not

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/1/ For an alternative presentation of the same information see  
MATUSZEWSKI et al.[1967].

/2/ See UNITED NATIONS [1968].

Schematic Accounting Framework of the Detailed 1961 Input-Output Tables

Commodities	Commodities		Business (current account)	Persons Personal Expenditure on Consumer Goods and Services	Governments Government Expenditure on Goods & Services	Business (gross capital formation)		Non-Residents
	Competitive Commodities	Non-Competitive Commodities				Business Gross Fixed Capital Formation	Value of the Physical Change in Inventories	
Competitive Commodities	1		Industries	2	3	4	5	6
Non-Competitive Commodities			7	8	9	10	11	12
Industries	13							
Imports	14	15						
Commodity Taxes			16	17	18	19	20	21
Subsidies			22	23	24	25	26	27
Indirect Taxes			28	29	30			31
Services of Government			32	33	34			35
Wages, Salaries, and S.L.I.			36	37	38			
Net Income of Unincorp. Bus.			39					
Surplus			40		41			

uniform; in different parts of the accounts different consolidations are used, depending on the availability of information and on the form in which the data are most useful for analytical purposes. For example, Personal Expenditure on Consumer Goods and Services is classified by one of the categories of transactors (the buyer —persons), by object (by commodity) and by the purpose of the buyer (e.g., for Education). However, the transactions shown in this final demand vector are not detailed according to the various suppliers, i.e., domestic producing industries and imports.

## 2.1 Commodities and Industries

In full worksheet detail, there are 644 commodities and 187 industries (see Chapter 5 for classification systems). Two types of commodities are distinguished —"competitive" and "non-competitive". The latter consist of (six) selected categories of imported commodities for which there is no counterpart in domestic production. The balance are called "competitive", that is, they represent classes of goods and services for which there is production by domestic industries.

The distinction between competing and non-competing imports is necessarily arbitrary. It depends, in part, on the degree of detail of the commodity classification. For example, imports of machinery have a domestic counterpart but there are categories of imported machinery for which there is no domestic counterpart. Furthermore, the competitiveness of an import depends on whether the domestic economy has the means to produce a counterpart, the price at which a counterpart could be produced, and the availability of close substitutes in domestic production. Such concepts are most difficult to quantify. Consequently, various conventions have been proposed for making a distinction between competing and non-competing imports. One set of conventions is that employed in the "class or kind" rules used in determining Canadian customs import duties.



Such detailed conventions could not be applied in estimating competing versus non-competing imports for the 1961 Input-Output Tables. The basic import data for 1961 were tabulated according to an obsolete commodity classification (revised in 1963) which did not provide sufficient comparability in detail with domestic production data to allow fine distinctions between competing and non-competing imports. As a result, only selected imports such as tropical fruit, raw cotton, raw natural rubber, green coffee beans, etc. were treated as non-competing imports. There is one advantage to this approach —the list is likely to remain stable over an extended period.

It would be desirable for analytical purposes to classify data on competing imports by purchaser and purpose as well as by commodity, that is, to split each entry in the submatrices showing the demands for competitive commodities into domestically produced and imported components. Unfortunately, the records of firms and other purchasers generally do not contain information on the origin (domestic or foreign) of a purchased commodity. This leaves the possibility of making inferences about the origin of purchases on the basis of such attributes as the unit values of imported versus domestic commodities. Apart from the inherent uncertainty of such inferences and the absence of quantity information for many commodities, the obsolescence of the 1961 import classification ruled out this approach; it was difficult enough to classify imports according to the same commodity classification as that used for domestic products.

An industry is a collection of individual producing units which are grouped together on the basis of some common characteristic —for example: the basic material used (Cement Products Industry); the purpose of the end product (Household Furniture Industry); the production process employed (Metal Stamping, Pressing and Coating Industry).

In the case of a firm or enterprise which carries on a variety of activities, there is a problem of dividing the entity into a number of homogeneous units suitable for statistical analysis. To attempt to define each separate production process or activity as the basic unit means, in most cases, adopting a unit which is smaller than that used by firms or enterprises for their accounting records of outputs and related inputs.

The unit used is the establishment, the smallest unit for which such accounting records are available. Typically, the establishment is the factory, mine, store, service outlet, etc. Because of conceptual and data problems, certain industries have not been defined as collections of establishments; these exceptions are discussed in Chapter 5.

The D.B.S. Standard Industrial Classification /1/ is a system of classification for establishments in both the business and non-commercial sectors. The term "industry" is employed in this Input-Output publication in a special sense; unless otherwise qualified, the term refers to the business sector only./2/

If an establishment produces two products, for example trucks and agricultural implements, its industrial classification depends upon which of the two products represents the larger share of its gross value of production. If trucks represent the larger share, then the whole establishment is classified to the Motor Vehicles Industry.

Each industry usually produces several characteristic or "principal" products; in many instances they also produce "secondary" commodities (commodities principal to other industries, such as agricultural implements in the above example). Some of the secondary products may be services as well as goods.

The concept of the principal products of industries provides the basis for the link between the Input-Output Industry Classification and Commodity Classification systems. The last three digits in the code numbers for competitive commodities present a numerically sequential listing for those commodities. For a particular commodity, this part of the code number is preceded by the code number of the industry which is the principal producer of the commodity (in practice, the industry which produced the largest value of the commodity in 1961)./3/

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/1/ D.B.S. cat#12-501 [1960].

/2/ This definition of industries is consistent with the definition adopted in the revised United Nations System of National Accounts; see UNITED NATIONS [1968].

/3/ See lists of 187 Input-Output Industries and of 644 Input-Output Commodities (worksheet level of detail) in Appendix B.

In analysing economic interdependence, it is necessary to maintain the link between the original sources of supply of a good (that is, domestic industries or imports) and the intermediate or final consumer of the good. To this end, the wholesale and retail trade industries are short-circuited; they are not shown as consumers of the goods which they purchase nor as producers of those which they sell. Rather, their trading outputs are defined as the gross margins on goods traded, with the inputs defined accordingly.

It is customary to express the measures of inputs and outputs of commodities in Input-Output Tables on the same basis of valuation. Further, in some applications of Input-Output analysis the transaction values of commodities are interpreted as proxies for the corresponding quantities. Thus it is desirable that a dollar's worth of a commodity represent approximately the same quantity of that commodity in every part of the Tables. For these reasons (and for certain others) the basis of valuation used is "producers' values" (or values at "producers' prices"); the term is defined below.

## 2.2 The Commodity Accounts

Submatrix 13 contains that part of the supply of each competitive commodity that was produced by each industry at "producers' values" /1/ defined to be the selling values at the output boundaries of the producing establishments, excluding any sales or excise taxes levied after the final stage of processing. An entry in this submatrix can be interpreted as the sum of the values of all the transactions of the industry in question with the industries, persons, governments and non-residents who purchased a

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/1/ For domestically produced commodities, the term "producers' values" used here corresponds to "approximate basic values" in UNITED NATIONS [1968], except in the treatment of subsidies on commodities (see Section 2.3).



particular commodity for whatever purpose. Because in Input-Output analysis it is desirable to relate inputs to production rather than to shipments, the entries show values of production. Hence, for the above-mentioned interpretation of an entry in this submatrix to be valid, the definition of transactions must be stretched to include the accumulation or decumulation of inventories by the producing industry. If there is an accumulation of such inventories, the consolidated transactions can be considered to include a sale to the industry's inventory account. Conversely, if there is a decumulation of inventories, the transactions will include a negative item representing a purchase from the industry's inventory account.

Submatrices 14 and 15 are row vectors showing, respectively, imports of competing commodities and imports of non-competing commodities. If domestically produced inputs and outputs must be valued uniformly, then so must imports. There is no precise value for imports which corresponds conceptually to the producers' values used for domestic products. International Input-Output practice suggests that imports should be valued at the border of the importing country inclusive of import duties (i.e., including all charges involved in conveying the imports to the border plus import duties). These are the measurable import values which, under a system of relatively competitive pricing, are likely to correspond to domestic producers' values. Hence, the producers' values of imports are defined to be imports c.i.f. /1/ the Canadian border plus import duties./2/

The demands for commodities by the various classes of transactors are shown in submatrices 1 through 6 for competitive commodities (whether domestically produced or imported) and in submatrices 7 through 12 for non-competitive commodities.

Submatrices 1 and 7 contain the demands, on current account, of each industry for each commodity for the purpose of using the commodity as an intermediate input in the production of other commodities. It is the

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/1/ Cost, insurance, freight.

/2/ To express imports c.i.f. the Canadian border, it was necessary to estimate the transportation and insurance charges involved in conveying each commodity to the Canadian border because Canada's trade statistics ordinarily value imports f.o.b. the last point of shipment in the country of export.

industry's consumption or use of the commodity (rather than the purchases) which must be related to the industry's production in Input-Output analysis. Hence, these entries refer to the amounts used. Any entry can be interpreted as the value of transactions of one industry for intermediate purposes with all of its suppliers of a particular commodity. Again, it is necessary to define these transactions to include the appropriate inventory changes - this time of the purchasing industry.

The total cost of a commodity laid down at the using establishment (the purchasers' value) will often include for-hire transportation charges, trade margins (if the good passes through one or more trading establishments) and commodity taxes such as sales taxes or excise duties, these "margins" being in addition to the producers' value. For many analytical purposes it has been found that a uniform valuation at the producers' level is preferable because the amounts of transportation charges, trade margins and commodity taxes included in the purchasers' values of commodities vary considerably from one purchaser to another. Thus, the entries in submatrices 1 and 7 do not contain the actual transaction values of industries with their suppliers (since these may include all or part of the margins). Rather, they represent estimates of the relevant producers' values of the transactions. Any for-hire transportation charges and any trade margins are treated as separate commodity inputs. Any commodity taxes levied after the producers' value stage and included in the purchasers' value are shown as inputs in the row entitled "Commodity Taxes" /1/ (submatrix 16). Therefore, the total costs of each industry include the full value of all transactions with suppliers for intermediate purposes.

The methods of valuation and treatment of transport, trade, and commodity tax margins for commodities purchased by final demand categories of transactors are identical to those employed for the intermediate demands of industries.

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/1/ This excludes import duties which are part of the producers' values of imports.

Submatrices 2 and 8 show the portion of personal expenditure on consumer goods and services which represent purchases of commodities. Persons are defined to include not only individuals and families, but also certain private non-profit organizations such as labour unions, religious organizations, private clubs, etc. The submatrices for personal expenditure on consumer goods and services are sub-divided into column vectors /1/ according to the purpose or function of the consumer purchases, that is, food, transportation, medical care, etc. These categories will, so far as possible, be relatable to the categories of consumer expenditure in the current revision of the Income and Expenditure Accounts and to Family Expenditure Survey categories./2/

Submatrices 3 and 9 contain the expenditure of governments on commodities. These expenditures are further classified according to two levels of government —federal, and provincial plus local —and according to whether the expenditures are current or capital. Further, the accounting units in government are grouped by their main purposes, such as education, health, welfare, defence, administration, etc. Any revenues of governments from their production and sale of commodities (that is, of goods and services typically produced by industries) **are** treated as negative entries in the appropriate column of government expenditure./3/

Submatrices 4 and 10 contain the expenditures of industries on new fixed capital goods, that is, on new plant and equipment. It would be most useful to classify the value of each commodity in this vector according to the industry which makes the purchase, in the same way that the current account inputs of industries are classified. This information is basic to

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/1/ The reader is reminded that the categories of final demands in the preliminary Tables being published in Volumes 1 and 2 are highly aggregated. The categories shown are net exports, re-exports, value of the physical change in inventories (for all industries combined), and other final demand.

/2/ For reasons which are explained in Appendix A, Section A.10.

/3/ See Section 4.2.



the formulation of "dynamic" Input-Output models which trace the impact of current period levels of demand, output and capacity on the capital formation required for future production. Unfortunately, the information collected on capital expenditures of industries does not permit detailed identification of the specific goods purchased by each industry. However, it may prove feasible to make such estimates at the "Major Group" level of the D.B.S. Standard Industrial Classification (this would involve, for example, estimates for 20 industrial groups in Manufacturing). The Input-Output Staff will prepare these estimates if investigation proves that such a project is feasible.

Submatrices 5 and 11 contain the values of the physical changes in inventories of commodities held by industries. An entry refers to the total change in the inventories of a commodity wherever held in the business sector --whether in the industries which produce the commodity, those which purchase it for intermediate use, or those which acquire it for trading purposes. An accumulation of inventories is considered to be an increase in demand for commodities even though the accumulation may have been involuntary. A decumulation of inventories is a source of supply of the commodities; these entries thus represent elements of both the demand and supply of commodities.

The valuation of inventory change presents special problems because firms employ a variety of inventory accounting methods; the book values of inventories of firms may show changes in the values of inventories which do not reflect actual changes in the quantities; this is particularly true when the relevant commodity prices have changed during the accounting period. Various adjustments are made in order to estimate the "value of the physical change" in inventories based on average current period producers' prices./1/

Submatrices 6 and 12 show exports classified by commodity. Consideration will be given to a breakdown of exports by country or area when additional

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/1/ This convention is not followed for inventories of goods in process and finished products held by producers. The value assigned to these inventories is calculated on the basis of the costs of production of the commodities excluding the element of profit which is realized when the commodities are sold.

final demand detail is published. As with other elements of commodity demand, the valuation of exports is at producers' prices./1/

### 2.3 The Industry Accounts and Other Entries

Submatrix 13 (the production of competitive commodities by industries) and submatrices 1 and 7 (the intermediate use of commodities by industries) have already been dealt with in describing the Commodity Accounts.

Submatrix 16 contains, for each industry, the sum of commodity taxes levied beyond the producers' prices valuation level on the commodities used by the industry for intermediate purposes; submatrices 17 through 21 contain comparable commodity tax totals on the purchases of commodities by final demand categories. The principal taxes represented here are the federal manufacturers' sales tax, excise taxes and excise duties, the provincial motor fuel taxes, and provincial and municipal sales taxes. Customs import duties, being part of the producers' values of imports, are not included.

Submatrix 22 contains government subsidies received by industries on current account operations. The entries are negative because the subsidies are revenues to industries.

This accounting procedure for subsidies differs from that recommended in UNITED NATIONS [1968], where subsidies on commodities are treated as the converse of commodity taxes. In the United Nations treatment, a commodity subsidy is shown as a negative input into the industry using the commodity as an intermediate input, or as a negative expenditure of the final demand

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/1/ Trade of Canada statistics value exports free on board the point of consignment for export. Often this level of valuation coincides with the producers' level but in some cases estimates of transportation and trade margins had to be subtracted from Trade of Canada values, particularly when the exporter was not the original producer of the commodity, in order to express exports at producers' values.

transactor who purchases the commodity; appropriate adjustments must be made to the producers' values of commodity and industry outputs and of (intermediate) commodity inputs and/or final expenditures on commodities.

It is much easier to make the estimates using the accounting concepts for subsidies as in the Canadian preliminary 1961 Tables. From the viewpoint of Input-Output analysis, certain aspects of each of the two methods are desirable. In revising the 1961 Tables, estimates on the basis of the United Nations concepts will be considered --it may, in fact, be useful to have the data available on both bases. Thus provision has been made in Diagram 2 for entries in submatrices 23 - 27, as well as in submatrix 22.

Submatrix 28 contains, for each industry, non-commodity indirect taxes including property taxes plus certain government fees and licensing charges which are treated as indirect taxes in the Income and Expenditure Accounts. Submatrices 29, 30 and 31 contain comparable data for persons, governments and non-residents.

Submatrix 32 contains payments by industries for certain "services" produced in the government sector which are considered to be unique to government (and therefore not part of "commodities"); submatrices 33, 34 and 35 contain the comparable payments by persons, governments and non-residents. In addition to certain registration fees, licenses and similar charges not treated as indirect taxes in the Income and Expenditure Accounts, such payments as harbour dues, airport landing fees, and tuition charges by educational institutions in the government sector are also included. The payments by the industry or final demand category which uses the "service" are represented by positive entries in the relevant column; the "Services of Governments" row shows the offsetting receipts by governments as negative entries in the appropriate government columns where these "service" revenues are produced.

Submatrix 36 contains wages, salaries and supplementary labour income of employees in industries. Submatrix 37 contains the comparable labour incomes of employees of private non-profit institutions, plus those of domestic servants. Submatrix 38 contains wages, salaries and supplementary labour income of public servants and other civilian employees in the government sector



plus military pay and allowances. These are entered in the current account columns of the relevant government purpose categories.

The entries in submatrix 39 show the net incomes of unincorporated businesses which include the returns to the labour contribution of proprietors, for whom no separate "wage and salary" estimates are made.

The entries in submatrix 40 represent a residual "surplus" calculated, for each industry, as the difference between the value of the industry's total output and its costs as shown in submatrices 1, 7, 16, 22, 28, 32, 36, and 39. In principle, these entries contain the following: for incorporated business, profits on productive activity (before corporation income taxes and before payments of interest and dividends), and capital consumption allowances; for unincorporated business, capital consumption allowances, the non-farm inventory valuation adjustment, and certain other valuation adjustments.

The concepts of net income of non-farm unincorporated business and corporate profits in the Income and Expenditure Accounts, and of net income of non-farm unincorporated business and profit on production activity for corporations in the Input-Output Accounts, are based on industry output levels that are calculated using "book value" inventory changes. As described earlier in this chapter, it is the values of the physical change in inventories that are employed on the expenditure side, resulting in a revision of the value of the output for each non-farm industry. This "inventory valuation adjustment" must therefore be entered on the input side of each non-farm industry to maintain the equality of total output and total input.

Since the non-farm inventory valuation adjustment is not made to net income of unincorporated business, it becomes part of surplus. For all industries including Agriculture, the miscellaneous valuation adjustments are similarly included in surplus.

The relationship of net income of unincorporated business and surplus in the Input-Output Accounts to the components of the income side of the Income and Expenditure Accounts, as they relate to the business sector, is:

INCOME AND EXPENDITURE ACCOUNTS (domestic basis)		INPUT-OUTPUT ACCOUNTS
1	Accrued Net Income of Farm Operators from Farm Production	Net Income of Unincorporated Business
2	Net Income of Non-Farm Unincorporated Business	
3	Capital Consumption Allowance and Miscellaneous Valuation Adjustments (Unincorporated and Corporate Business)	Surplus
4	Inventory Valuation Adjustment (Non-Farm Unincorporated and Corporate Business)	
5	Corporation Profits Before Taxes (Before Payments of Dividends)	
6	Interest and Other Investment Income (Including Interest Paid to Non-Residents and After Deduction of Interest Received From Non-Residents)	

The concept of the value of production in the Income and Expenditure Accounts and in the Input-Output Accounts excludes revenues from financial operations such as interest and dividends received. Hence, in the Input-Output Accounts, net income of unincorporated business and profit on productive activity for corporations exclude these revenues.

The portion of surplus which has been defined as profit on productive activity for corporations thus includes the miscellaneous valuation adjustments from item #3, plus items #4, 5 and 6 of the Income and Expenditure Accounts (as they relate to corporations). It should be noted that item #5 in the Income and Expenditure Accounts --corporation profits before taxes --excludes interest paid but includes interest received. The relevant offsets appear in item #6 which includes "net interest paid", that is, interest paid less interest received./1/

Submatrix 41 shows capital consumption allowances on fixed capital in the government sector.

For a particular industry, the sum of wages, salaries and supplementary labour income, net income of unincorporated business, and surplus represents the Gross Domestic Product at Factor Cost originating in the industry. It is important to recall that "industries" in these Input-Output Accounts cover only establishments classified to the business sector. Gross Domestic Product at Factor Cost originating in activities in the sectors for persons and government appear in submatrices 37 and 38 (wages, salaries and supplementary labour income and military pay and allowance) and in submatrix 41 (consumption of fixed capital in the government sector).

As has already been mentioned, data for the full system of Diagram 2 are not being published in this document. One reason --a temporary one -- is that some of the tabulations of final demand categories are not yet complete and will be published later. In addition, many entries in the full framework are confidential and cannot be published in the detail in which they were calculated. Chapter 4 describes the tables contained in this Volume and in Volume 2.

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/1/ See D.B.S. cat.#13-502 [1962], pp.134-138. Chapter 5 contains a more detailed description of the treatment of interest and dividends, including the measurement of the production of financial institutions, such as banks.



ANALYTICAL USES

The 1961 Input-Output Tables have features which are not characteristic of conventional Input-Output Tables; both the inputs and outputs of industries are classified in two ways (according to the producing or using industry and according to the commodity produced or used) and the number of commodities is greater than the number of industries.

A dual classification of inputs and outputs according to industry and commodity is recommended by the United Nations Statistical Commission and is beginning to gain acceptance. However in the commodity and industry classifications of the United Nations /1/ each commodity is defined to be the characteristic product (or principal product) of one industry and each industry has only one characteristic product. When the characteristic product of one industry is produced by another industry it is referred to as a secondary product of the latter industry.

In the Canadian system the one-to-one correspondence between industries and their characteristic products is abandoned; the characteristic product of each industry is often subdivided into several commodities. Hence the tables containing the outputs and intermediate inputs of industries are rectangular rather than square./2/ This rectangular arrangement of Input-Output Tables does not prevent the formulation of standard Input-Output models. However with rectangular tables it also becomes possible to develop other kinds of Input-Output models.

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/1/ See UNITED NATIONS [1968].

/2/ The compilation of rectangular Input-Output Tables was first implemented for the Province of Quebec under the direction of Professor Matuszewski of Laval University and for the Atlantic Provinces under the direction of Professor K. Levitt of McGill University.

This Chapter contains a non-mathematical description of the uses of the models published in this Volume and in Volume 2. A mathematical description of these models is provided in Appendix A which also contains descriptions of a number of additional models.

The exposition in this Chapter makes use of the simplified hypothetical example contained in Diagram 1. Certain features of Input-Output Tables which were neglected in Diagram 1 and which were introduced in Chapter 2 are now added to the example. Thus Diagram 3 is identical with Diagram 1 except in the following respects:

- i) competing imports are shown as a negative demand for commodities rather than as a positive supply of commodities. Consequently, the total for a commodity row and column represents the domestic production rather than the total supply of the commodity;
- ii) capital formation has been subdivided into fixed capital formation and the value of the physical change in inventories;
- iii) exports have been subdivided into exports of domestic commodities (referred to as net exports) and exports of imported commodities (referred to as re-exports);
- iv) indirect taxes have been subdivided into taxes levied on transactions in commodities (referred to as commodity taxes) and other indirect taxes such as property taxes (referred to as indirect taxes).

### 3.1 The Basic Model

Input-Output models are developed from the information contained in Diagram 3. In their simplest expression /1/ they take the form of tables

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/1/ See Appendix A, Section A.9 for more complex models which cannot be expressed in the form of impact tables.

D I A G R A M    3

Expanded Hypothetical Example of a Simplified Set of Input-Output Accounts  
(for an economy in which there are three industries which produce five commodities)

(billions of dollars)

		Commodities					Industries			Final Demand & Imports							TOTAL
		1	2	3	4	5	A	B	C	P	G	F.C.F.	Δ inv.	NX	RX	-M	
Commodities	1						3	3	1	3	1			7		-3	15
	2						7	4	2	10	2	4	1	10	1	-18	23
	3						2	2	1	5		4					14
	4						8	10	4	10	3					-1	34
	5						3	3	1	10	1	2		3		-1	22
Industries	A	15	22	8	1												46
	B		1	4	30												35
	C			2	3	22											27
Commodity Taxes							1	1		9	2	2					15
Indirect Taxes							2	1	1								4
Wages & Salaries							14	8	12		13						47
Surplus							6	3	5								14
TOTAL		15	23	14	34	22	46	35	27	47	22	12	1	20	1	-23	

Final Demand Categories and Imports

- P- Personal Expenditure on Consumer Goods and Services
- G- Government Expenditures on Goods and Services
- F.C.F. - Business Gross Fixed Capital Formation
- Δ inv. - Value of the Physical Change in Inventories
- NX- Net Exports of Goods and Services
- RX- Re-Exports of Goods and Services
- M- Imports of Goods and Services

Note:

This example abstracts from the following details which were introduced in Chapter 2:

- Net income of unincorporated business
- Valuation adjustments
- Supplementary labour income; military pay and allowances
- Production of final demand sectors
- Import duties; subsidies
- The distinction between competing and non-competing imports



which summarize the impact of deliveries to final demand on levels of productive activity. In general, these impact tables are based on two assumptions. The first is that each commodity is produced by industries in fixed proportions./1/ These fixed proportions are derived from Diagram 3 by dividing, for each commodity the value of the production of the commodity by each industry by the value of the total output of the commodity. The tables of values of outputs and the corresponding proportions (which are referred to as the market shares of industries in the production of each commodity) are shown below as Tables AA and AB:

TABLE AA

Values of Outputs  
Matrix V /2/

(billions of dollars)

		C o m m o d i t i e s				
		1	2	3	4	5
Industries	A	15	22	8	1	
	B		1	4	30	
	C			2	3	22

Vector q'

Comm. Outputs	15	23	14	34	22
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TABLE AB

Market Shares  
Matrix D

		C o m m o d i t i e s				
		1	2	3	4	5
Industries	A	1.0000	.9565	.5714	.0294	
	B		.0435	.2857	.8824	
	C			.1429	.0882	1.0000

/1/ To simplify the exposition it is assumed for the moment that there are no imports. The treatment of imports is discussed at some length below.

/2/ For the convenience of mathematically inclined readers the matrix notation developed in Appendix A is included with each table. Non-mathematical readers can disregard these symbols.

The second assumption on which impact tables are based is that in order to produce each dollar of output an industry requires certain fixed values of commodity inputs. These are referred to as the intermediate input coefficients of the industry which are derived from Diagram 3 by dividing, for each industry, the value of each commodity input of the industry by the total value of output of the industry. It should be noted that according to this assumption the inputs of an industry are proportional to the output of the industry irrespective of the level of that output and of its commodity composition. Thus whether Industry A is producing a dollar of Commodity 1 or of Commodity 3 it will use the same inputs to do so. This assumption is usually defended by suggesting that technology is organized on an industrial basis so that roughly the same structure of inputs is appropriate for the various commodities produced by an industry. For this reason the assumption is referred to as the industry technology assumption. The values of industry inputs and the corresponding input coefficients are shown in Tables AC and AD:

TABLE AC

Industry Inputs  
Matrix U

(billions of dollars)

		I n d u s t r i e s		
		A	B	C
Commodities	1	3	3	1
	2	7	4	2
	3	2	2	1
	4	8	10	4
	5	3	3	1
		Vector g'		
Industry Outputs		46	35	27

TABLE AD

Input Coefficients  
Matrix B

		I n d u s t r i e s		
		A	B	C
Commodities	1	.0652	.0857	.0370
	2	.1522	.1143	.0741
	3	.0435	.0571	.0370
	4	.1739	.2857	.1481
	5	.0652	.0857	.0370

Impact tables are derived from Tables AB and AD by tracing the impact on all commodity and industry outputs of a hypothetical dollar of final expenditure on a particular commodity. To show how these impact tables are calculated it will be assumed that there is a dollar of final expenditure on Commodity 3.

According to the market share assumption (Table AB) \$.5714 of this dollar of final expenditure will be produced by Industry A, \$.2857 by Industry B, and \$.1429 by Industry C.

According to the industry technology assumption (Table AD) this production by Industries A, B and C will require intermediate inputs which are calculated by multiplying all the intermediate input coefficients of Industry A by \$.5714, those of Industry B by \$.2857 and those of Industry C by \$.1429. The result is shown in Table AE:

TABLE AE

Inputs (dollars)

		I n d u s t r i e s			TOTAL
		A	B	C	
Commodities	1	.0373	.0245	.0053	.0671
	2	.0870	.0327	.0106	.1303
	3	.0249	.0163	.0053	.0465
	4	.0994	.0817	.0212	.2023
	5	.0373	.0245	.0053	.0671



The totals (for all industries) of each commodity input constitute requirements for commodities which in turn require additional production by industries. Once again the distribution of this production among industries is determined through the market share assumption (Table AB) by multiplying the market share coefficients of each industry in the production of Commodity 1 by \$.0671, in the production of Commodity 2 by \$.1303, in the production of Commodity 3 by \$.0465, in the production of Commodity 4 by \$.2023 and in the production of Commodity 5 by \$.0671. The result is shown in Table AF.

TABLE AF

Outputs (dollars)

		C o m m o d i t i e s					TOTAL
		1	2	3	4	5	
Industries	A	.0671	.1247	.0266	.0059	0	.2243
	B	0	.0057	.0133	.1785	0	.1975
	C	0	0	.0066	.0178	.0671	.0915

This further production required in each industry (\$.2243 in Industry A, \$.1975 in Industry B and \$.0915 in Industry C) requires additional commodity inputs which, in turn, require further production, and so forth. The first five rounds of this process are summarized in Table AG:

TABLE AG  
(dollars)

		Round 1	Round 2	Round 3	Round 4	Round 5
Commodity Outputs	1	0	.0671	.0349	.0183	.0094
	2	0	.1303	.0635	.0329	.0171
	3	1.0000	.0465	.0245	.0128	.0069
	4	0	.2023	.1090	.0570	.0297
	5	0	.0671	.0349	.0183	.0094
	Total	1.0000	.5133	.2668	.1393	.0725

Industry Outputs	A	.5714	.2243	.1128	.0588	.0306
	B	.2857	.1975	.1060	.0554	.0289
	C	.1429	.0915	.0480	.0251	.0130
	Total	1.0000	.5133	.2668	.1393	.0725

The notable thing about Table AG is that through successive rounds the derived demands for each commodity and the required outputs of each industry diminish steadily and, in this example, rapidly. This is no accident; it follows from the fact that the sum of the intermediate commodity inputs required by any industry to produce a given output must be smaller than that output because intermediate commodity inputs are only part of the total inputs of the industry which also include, in this example, commodity taxes, indirect taxes, wages and salaries and surplus./1/ Thus in each round the intermediate commodity inputs required by industries are smaller than the industry outputs of the previous round.

The fact that successive rounds of impacts diminish steadily implies that after a certain number of rounds the additional impact of further rounds on commodity and industry outputs becomes negligible. It is therefore possible to calculate (for all practical purposes) the total direct and indirect effects on industry and commodity outputs of a dollar of final demand for a particular commodity./2/ Table AH shows the total direct and indirect effects on commodity and industry outputs of a dollar of final expenditure on Commodity 3 and compares these effects with the effects of five rounds.

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/1/ The reader is reminded that, for each industry, total inputs are defined to be equal to total output.

/2/ In fact it is possible to calculate these total effects precisely, as indicated in Section A.1 of Appendix A. However, it is interesting to note that the methods often used with computers involve the calculation of a relatively small number of rounds of impact with an extrapolation for the effects of subsequent rounds.



TABLE AH

		Total Direct and Indirect Effects	Direct and Indirect Effects of 5 Rounds	Difference
Commodity Outputs	1	.1399	.1297	.0102
	2	.2621	.2438	.0183
	3	1.0975	1.0907	.0068
	4	.4300	.3980	.0320
	5	.1399	.1297	.0102
	Total	2.0694	1.9919	.0775

Industry Outputs	A	1.0303	.9979	.0324
	B	.7044	.6735	.0309
	C	.3347	.3205	.0142
	Total	2.0694	1.9919	.0775

The process of tracing these total direct and indirect effects can be repeated for Commodities 1, 2, 4 and 5. The results are the impact Tables AI and AJ:

TABLE AI

Direct and Indirect Effects on Commodity Outputs  
of a Dollar of Final Demand for Each Commodity  
Matrix  $[I + B(I-DB)]^{-1}D = [I-BD]^{-1}D$

		C o m m o d i t y				
		1	2	3	4	5
Commodity Outputs	1	1.1356	.1373	.1399	.1668	.0852
	2	.2812	1.2810	.2621	.2650	.1602
	3	.0927	.0939	1.0975	.1151	.0707
	4	.3927	.4004	.4300	1.5409	.2995
	5	.1356	.1373	.1399	.1668	1.0852
	Total	2.0378	2.0499	2.0694	2.2546	1.7008

TABLE AJ

Direct and Indirect Effects on Industry Outputs  
of a Dollar of Final Demand for Each Commodity  
Matrix  $[I-DB]^{-1}D$

		C o m m o d i t y				
		1	2	3	4	5
Industry Outputs	A	1.4690	1.4279	1.0303	.5314	.2877
	B	.3853	.4359	.7044	1.4040	.2914
	C	.1835	.1861	.3347	.3192	1.1217
	Total	2.0378	2.0499	2.0694	2.2546	1.7008

The usefulness of impact tables is that the effect on commodity and industry outputs of any final expenditure on a given commodity will be proportional to the effect of a dollar of final expenditure on that commodity. This is due to the proportionality assumptions embodied in the input and market share coefficients on which the impact tables are based. Thus to assess the total direct and indirect effects of \$200 million of final demand for Commodity 3 it is sufficient to multiply the figures in the third column of Tables AI and AJ by \$200 million:

TABLE AK

Direct and Indirect Effects on Commodity and Industry  
Outputs of \$200 Million of Final Demand for  
Commodity 3

(millions of dollars)

Commodity Outputs	1	27.98
	2	52.42
	3	219.50
	4	86.00
	5	27.98
	Total	413.88

Industry Outputs	A	206.06
	B	140.88
	C	66.94
	Total	413.88



The reader will observe that the \$200 million of final demand for Commodity 3 is shown as requiring \$219.50 million of production of that commodity. This is because Commodity 3 is also used by every industry as an intermediate input. In fact to deliver \$200 million of Commodity 3 to final users, the system as a whole is shown as producing \$413.88 million, \$213.88 million of which is used up as intermediate input.

The impact of \$200 million of final demand for Commodity 3 on domestic industry and commodity outputs given in Table AK is overstated. Impact Tables AI and AJ can be interpreted as measuring the direct and indirect effects of a dollar of final demand for each commodity on the assumption that there are no import leakages, i.e. that all demand, whether intermediate or final, is supplied through domestic production only. The use of these Tables to calculate Table AK therefore implies that no part of the \$200 million of final demand is routed to imports and that no part of the further required intermediate demand in each round of impact is routed to imports. The overstatement is all the more serious because in each round, the imports which would normally act as a leakage, are counted as domestic goods and therefore require further domestic production.

In order to adjust the results obtained in Table AK to reflect the impact on domestic industry and commodity outputs of the \$200 million of final demand, it is necessary: (i) to estimate independently the total imports for each commodity required directly and indirectly by \$200 million of final demand; (ii) to estimate through Tables AI and AJ the impact on commodity and industry outputs of the fact that these imports were counted as demand for domestic goods in the original calculation; (iii) to subtract the resulting industry and commodity outputs from the industry and commodity outputs of the original calculation. Of course, it is unnecessary to first calculate Table AK and then adjust for import leakages; both calculations can be performed at the same time. For example, if the imports directly and indirectly required by \$200 million of final demand for Commodity 3 are estimated independently as \$7.63 million for Commodity 1, \$29.71 million for Commodity 2, \$32.93 million for Commodity 3, \$2.46 million for Commodity 4 and \$1.40 million for Commodity 5, these figures can be combined with the original \$200 million of final demand for Commodity 3 to give the following composite final demand less imports:

(millions of dollars)

Commodity	1	-7.63
	2	-29.71
	3	+167.07
	4	-2.46
	5	-1.40

The impact on commodity and industry outputs of this final demand less imports can then be calculated by multiplying the figures in the first column of Tables AI and AJ by -\$7.63 million, those in the second column by -\$29.71 million, those in the third column by +\$167.07 million, and so forth. The result is shown in Table AL:

TABLE AL

Direct and Indirect Effects on Commodity and Industry Outputs of \$200 Million of Final Demand for Commodity 3, Including the Effects of Import Leakages

(millions of dollars)

		C o m m o d i t y					TOTAL
		1	2	3	4	5	
Commodity Outputs	1	-8.66	-4.08	+23.38	-.41	-.12	10.11
	2	-2.15	-38.06	+43.79	-.65	-.22	2.71
	3	-.70	-2.79	+183.36	-.28	-.10	179.49
	4	-3.00	-11.90	+71.84	-3.79	-.42	52.73
	5	-1.03	-4.08	+23.37	-.41	-1.52	16.33
Industry Outputs	A	-11.21	-42.42	+172.14	-1.31	-.40	116.80
	B	-2.94	-12.95	+117.68	-3.45	-.41	97.93
	C	-1.40	-5.53	+55.92	-.78	-1.57	46.64

When account is taken of import leakages, the production of Commodity 3 drops to \$179.49 million from \$219.50 and the total production of all commodities (which is equal to the production of all industries) drops from \$413.88 million to \$261.37 million.

It should be noted that the impact on commodity outputs of a given final demand can be estimated through Tables AJ and AD, i.e. without using Table AI. Taking the previous example of \$200 million of final demand for Commodity 3 less the total imports required by this demand, the impact on industry outputs has been calculated from Table AJ as \$116.80 million for Industry A, \$97.93 million for Industry B and \$46.64 million for Industry C (see Table AL). The intermediate commodity inputs required for this production (including inputs of both domestic and foreign goods and services) can be calculated from Table AD by multiplying the figures in each column of Table AD by the appropriate industry output:

TABLE AM

Intermediate Inputs  
(millions of dollars)

		I n d u s t r i e s			TOTAL
		A	B	C	
Commodities	1	7.62	8.39	1.73	17.74
	2	17.78	11.19	3.46	32.43
	3	5.08	5.59	1.73	12.40
	4	20.31	27.98	6.91	55.20
	5	7.62	8.39	1.73	17.74



If to this intermediate demand is added the final demand of \$200 million for Commodity 3, less the estimates of total imports directly and indirectly required for the \$200 million of final demand, the results (apart from rounding errors) are the commodity outputs calculated through Table AI and shown in Table AL:

TABLE AN  
(millions of dollars)

		Inter- mediate Inputs	Final Demand	Less Total Imports	Commodity Outputs
Commodity	1	17.74		-7.63	10.11
	2	32.43		-29.71	2.72
	3	12.40	200.00	-32.93	179.47
	4	55.20		-2.46	52.74
	5	17.74		-1.40	16.34

Since commodity outputs can be calculated from Tables AJ and AD, it is unnecessary to calculate impact Table AI; consequently no tables corresponding to Table AI are published in this Volume or in Volume 2.

The problem with calculating the impact of a given final demand for a particular commodity is that independent estimates must be made of the imports directly and indirectly required by this demand. There is really no satisfactory way of making such estimates./1/ On the other hand, it is possible to estimate imports for a year other than the base-year (the year for which the Input-Output Tables have been compiled).

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/1/ However, see Section 3.4 for impact tables designed to make allowance for import leakages in each successive round. They can be used to estimate direct and indirect effects on imports.

In general, complete estimates of final demand are made in connection with applications of Input-Output analysis for projection purposes. For such applications total imports classified by commodity can be projected on the basis of past trends. The projected levels of final demand less the projected levels of imports are then used to derive projections of industry and commodity outputs. Sometimes the estimates of final demand and imports are made not for a future year but for some year (other than the base-year) for which data has been collected on categories of final demand. In that case estimates of imports can usually be found in statistical publications on imports.

The following example illustrates the use of impact tables in deriving projections of industry and commodity outputs from complete projections of final demand and imports. Table A0 contains projections of final demand and imports which might be derived from analysis of trends or through more elaborate econometric techniques. The important point is that impact tables play no part in establishing these projections which are therefore exogenous to the Input-Output analysis.

TABLE A0

Projections of Final Demand Including Imports

(billions of dollars)

		P	G	F.C.F.	$\Delta$ inv.	NX	RX	Sub- Total	-M	TOTAL
Commodity	1	4	2			8		14	-4	10
	2	13	4	6	0	14	1	38	-20	18
	3	7		5				12		12
	4	15	5					20	-1	19
	5	14	1	3		4		22	-1	21

Given the projections of total final demand less total imports shown in the last column of Table A0, the resulting projections of industry outputs are calculated through Table AJ by multiplying the figures in the first column of Table AJ by \$10 billion, those in the second column by \$18 billion, and so forth. The sum of these figures for each industry constitute the projections of industry outputs.

(billions of dollars)

Industry Output Projections	A	68.89
	B	52.95
	C	38.82

Projections of commodity outputs can then be obtained by calculating through Table AD the intermediate input requirements implicit in the industry output projections, and adding the projections of final demand less imports of Table A0:

TABLE AP

Projections of Commodity Outputs  
(billions of dollars)

		Projections of Intermediate Demand	Projections of Final Demand Less Imports	Projections of Commodity Outputs
Commodity	1	10.47	10.00	20.47
	2	19.41	18.00	37.41
	3	7.46	12.00	19.46
	4	32.86	19.00	51.86
	5	10.47	21.00	31.47



### 3.2 Patterns of Final Expenditure

The foregoing example (see Table AP) illustrates a case where the projections of final demand and imports are made at the same level of detail as the base-year estimates. In reality, projections are initially likely to be less detailed than base-year data. Frequently, projections are made only for the total of particular categories of final expenditure, such as personal expenditure on consumer goods and services, government expenditures, and gross fixed capital formation./1/ In order to derive projections of final demand it is necessary to determine their commodity composition. In the absence of better information, it can be assumed that the commodity composition of a total projection for a category of final expenditure will be proportional to its base-year commodity composition.

The pattern of the base-year commodity composition of categories of final expenditure can be represented for each category of final expenditure by coefficients calculated by dividing the expenditure on each commodity by the total expenditure. The commodity composition of a projection for a category of final expenditure can then be obtained by multiplying the base-year coefficients by the total value of the projection.

Table AQ contains patterns of final expenditure for selected categories of final expenditure obtained from the data in Diagram 3:

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/1/ Projections of imports and exports are usually made in detail because detailed time series are available. The value of the physical change in inventories is usually projected as being zero for each commodity.

TABLE AQ

Final Expenditures on Commodities by Category of Expenditure as a Proportion of Total Final Expenditures by Category of Expenditure

Matrix E

		P	G	F.C.F.
Commodities	1	.0638	.0455	
	2	.2128	.0909	.3333
	3	.1064		.3333
	4	.2128	.1364	
	5	.2128	.0455	.1667
	TOTAL	.8086	.3183	.8333

Because expenditures on commodities are not the only elements of the total expenditures of these categories of final expenditure, the sums of the coefficients in each column of Table AQ are less than one.

The use of these patterns of final expenditure for projection is illustrated in the following example. Table AR contains aggregate projections of personal expenditure on consumer goods and services, government expenditures, and gross fixed capital formation, and detailed projections of changes in inventories, exports, and imports: /1/

TABLE AR

Aggregate Projections of Personal Expenditure, Government Expenditure and Gross Fixed Capital Formation and Detailed Projections of Inventory Change, Net Exports, Re-Exports and Imports

(billions of dollars)

		P	G	F.C.F.	Δ inv.	NX	RX	-M
Commodity	1				0	8		-4
	2				0	14	1	-20
	3				0			
	4				0			-1
	5				0	4		-1
Total Final Expenditure		67	37	16				

/1/ The projections of exports, imports and inventory change are the same projections shown in Table A0.

Given the aggregate projections for selected categories of final expenditures of Table AR, Table AQ can be used to derive projections of final expenditures on commodities. The result is shown in Table AS:

TABLE AS  
Detailed Projections of Final Demand and Imports  
(billions of dollars)

		P	G	F.C.F.	Δ inv.	NX	RX	Sub- Total	-M	TOTAL
Commodity	1	4.27	1.68			8.00		13.95	-4.00	9.95
	2	14.26	3.36	5.33		14.00	1.00	37.95	-20.00	17.95
	3	7.13		5.33				12.46		12.46
	4	14.26	5.05					19.31	-1.00	18.31
	5	14.26	1.68	2.67		4.00		22.61	-1.00	21.61

The figures in the last column of Table AS can be used in conjunction with Table AJ to derive projections of industry outputs. These industry outputs can be applied to Table AD to derive projections of intermediate inputs, which can then be added to the figures in the last column of Table AS to derive projections of commodity outputs; this procedure has already been described in detail in the previous illustration. The result is:

(billions of dollars)

	I n d u s t r y		
	A	B	C
Projection of Industry Outputs	69.03	52.44	39.42

(billions of dollars)

C o m m o d i t y					
	1	2	3	4	5
Projection of Commodity Outputs	20.40	37.37	19.91	51.13	32.06



The same projections of total consumer expenditure, government expenditure and fixed capital formation are involved in this case as in Table AP but this commodity composition of the projections is different. This creates the difference between the projected outputs in the two cases.

The foregoing illustrations describe the use of Input-Output Tables to derive a single projection of industry and commodity outputs from a single projection of final expenditures. However, Input-Output Tables are often used to test and compare the implications of a variety of projections of final expenditures. This is especially the case in tests of the implications of alternative projections of government policy on economic activity but is also true for projections of consumer expenditure and capital formation, which are likely to be affected by anticipated government policy.

Using any given pattern of expenditures on commodities for each category of final expenditure, it is possible to derive an impact table which summarizes the direct and indirect effects on industry outputs of a dollar spent on each category of final expenditure. With such impact tables, alternative projections can be tested without going through all the calculations described in the foregoing illustrations.

One such impact table can be calculated by applying the base-year expenditure patterns of Table AQ to Table AJ to derive, for each category of final expenditure, the impact on industry outputs. The result is shown in Table AT:

TABLE AT

Direct and Indirect Effects on Industry Outputs of a Dollar Spent on Selected Categories of Final Expenditure

		P	G	F.C.F.
Industry Outputs	A	.6815	.2822	.8673
	B	.5531	.2619	.4286
	C	.3935	.1198	.3606

Table AT is an impact table similar to Table AJ, except that it contains the effects on industry outputs of a dollar of final demand spent not on a single commodity but on several commodities according to the base-year pattern of each category of final expenditure./1/

The following example illustrates the use of Table AT to derive the impact on industry outputs of alternative projections of final expenditures. As in the previous examples, imports, exports and inventory change are projected in detail and at the levels shown in Table AR. For total consumer expenditures, total government expenditures and total fixed capital formation the following alternative projections are assumed:

TABLE AU

Alternative Projections of Final Expenditures  
(billions of dollars)

	P	G	F.C.F.
Projection 1	67	37	16
Projection 2	69	34	17
Projection 3	63	39	18

Projection 1 is identical with the projection shown in Table AR. Projections 2 and 3 involve redistributions of projected expenditures among the three categories of final expenditure.

The first step is to calculate separately the impact on industry outputs of those elements which are common to the three projections, i.e., exports plus inventory change less imports./2/ From Table AR these are:

---

/1/ The reader is reminded that part of the dollar is spent on primary input.

/2/ It is assumed, for the purposes of this example, that the projection of imports is not affected by the alternative projections of the three selected categories of final expenditure.

TABLE AV

Projections of Inventory Change, Exports and Imports  
(billions of dollars)

		inv.	NX	RX	-M	TOTAL
Commodity	1		8		-4	4
	2	0	14	1	-20	-5
	3					
	4				-1	-1
	5		4		-1	3

The figures in the last column of this table are then applied to Table AJ to calculate the impact on industry outputs:

TABLE AX

Impact on Industry Outputs of the Projections of  
Inventory Change, Exports and  
Imports

(billions of dollars)

		Industry Outputs
Industry	A	-.93
	B	-1.17
	C	2.85

Table AT can then be used to calculate the impact on industry outputs of the alternative projections of consumer and government expenditures and fixed capital formation. To calculate, for example, the impact on industry outputs of \$67 billion of consumer expenditures, it is sufficient to multiply the figures in the first column of Table AT by \$67 billion. The impact of any of the other expenditures shown in Table AU can similarly be calculated by multiplying the figures in the appropriate column of Table AT by the expenditure. The results are summarized in Table AY:

TABLE AY

Impact on Industry Outputs of the Alternative Projections  
of Final Expenditures of Table AU  
(billions of dollars)

		Industry Outputs		
		Projection 1	Projection 2	Projection 3
Industry	A	69.98	71.35	69.55
	B	53.61	54.35	52.77
	C	36.56	37.44	36.05

The impact on industry outputs of each complete projection can now be calculated by adding the figures of Table AX to the figures in each column of Table AY. The result as shown in Table AZ:

TABLE AZ

Impact on Industry Outputs of Three Alternative  
Projections of Final Demand Less Imports

(billions of dollars)

		Industry Outputs		
		Projection 1	Projection 2	Projection 3
Industry	A	69.05	70.42	68.62
	B	52.44	53.18	51.60
	C	39.41	40.29	38.90

The impact on commodity outputs of these alternative projections of final expenditures can be calculated in the manner already described in previous illustrations.



The usefulness of impact tables such as Table AT increases with the level of disaggregation of the categories of final expenditure. For example, if instead of one column for government expenditures Diagram 3 had several columns showing the breakdown of government expenditures by level of government and by purpose (e.g. health, education, defence), it would be possible, in making projections, to calculate the impact on levels of economic activity of alternative government policies involving, for example, transfers of funds from expenditures on defence to expenditures on education. In a subsequent publication this type of breakdown of government expenditures as well as breakdowns of other categories of final expenditures will be provided. In that publication impact tables of the same form as Table AT will be published. In this Volume and in Volume 2 no impact tables similar to Table AT are published because the categories of final expenditure in the present preliminary tables are highly aggregated.

### 3.3 Primary Inputs

The direct and indirect effects on industry outputs of given final expenditures are often used to determine the primary inputs associated with these final expenditures. These calculations involve an extension of the industry technology assumption to each category of primary inputs. Thus on the basis of Diagram 3 it is assumed that the taxes, wages and salaries and surplus of each industry will be proportional to the total output of the industry. These proportionalities are expressed in the form of primary input coefficients which are calculated by dividing, for each industry, the value of each primary input by the total value of output. The result is shown in Table BA:

TABLE BA

Primary Input Coefficients of Industries

Matrix Y

	I n d u s t r y		
	A	B	C
Commodity taxes	.0217	.0286	
Indirect taxes	.0435	.0286	.0370
Wages and Salaries	.3044	.2286	.4445
Surplus	.1304	.0857	.1853

Tables AJ and BA can be used to calculate the direct and indirect effects on the primary inputs of industries of a hypothetical dollar of final demand for each commodity. Taking Commodity 1 as an example, from Table AJ it follows that a dollar of final demand for Commodity 1 will require \$1.4690 of output in Industry A, \$.3853 in Industry B and \$.1835 in Industry C. Each of these industry outputs will require primary inputs which can be determined from Table BA by multiplying the figures in the first column of the table by \$1.4690, the figures in the second column by \$.3853 and those in the third column by \$.1835. The result is shown in Table BB:

TABLE BB

Direct and Indirect Effects on the Primary Inputs of Industries of a Dollar of Final Demand for Commodity 1

	I n d u s t r y			TOTAL
	A	B	C	
Commodity taxes	.0319	.0110		.0429
Indirect taxes	.0639	.0110	.0068	.0817
Wages & Salaries	.4471	.0881	.0816	.6168
Surplus	.1916	.0330	.0340	.2586

Similar calculations can be made to determine the direct and indirect effects on primary inputs of a dollar of final demand for each of the other commodities. The results of these calculations are summarized in Table BC:

TABLE BC

Indirect Effects on the Primary Inputs of Industries of  
Dollar of Final Demand for Each Commodity

Matrix  $Y[I-DB]^{-1}D$

	C o m m o d i t y				
	1	2	3	4	5
Commodity taxes	.0429	.0435	.0425	.0517	.0146
Indirect taxes	.0817	.0815	.0773	.0750	.0624
Wages & Salaries	.6168	.6170	.6235	.6245	.6527
Surplus	.2586	.2580	.2567	.2488	.2703
Total Primary Inputs of Industries	1.0000	1.0000	1.0000	1.0000	1.0000

Table BC is an impact table similar to Table AJ except that it is the impact on the primary inputs of industries rather than the impact on industry outputs which is being measured.

The reader will note that the direct and indirect effects on the total primary inputs of industries of a dollar of final demand for any commodity are equal to one dollar. This is due to the fact that primary inputs are by definition equal to final expenditures less imports; since the imports associated with a dollar of final demand for each commodity were not subtracted from the dollar of final demand, a full dollar of primary inputs is generated. Thus Table BC involves an overestimate of the primary inputs of industries induced by a dollar of final demand comparable to the overestimate of industry outputs of Table AJ.

Like Table AJ, Table BC can be used to derive projections -in this case the primary inputs of industries- from projections of final demand less imports. To illustrate this application, the projections of final demand less imports shown in Table AO of Section 3.1 are used in conjunction with Table BC to derive projections of the primary inputs of industries. The procedure involves multiplication of the figures in each column of Table BC by the final demand less imports for the appropriate commodity, taken from the last column of Table AO:

TABLE BD

Projections of the Primary Inputs of Industries  
Derived From the Projections of Final Demand  
Less Imports of Table AO

(billions of dollars)

	C o m m o d i t y					TOTAL
	1	2	3	4	5	
Commodity taxes	.43	.78	.51	.98	.31	3.01
Indirect taxes	.82	1.47	.93	1.43	1.31	5.96
Wages &Salaries	6.17	11.11	7.48	11.87	13.71	50.34
Surplus	2.59	4.64	3.08	4.73	5.68	20.72

The sum of the figures in the last column of Table BD is \$80 billion, equal to the sum of the figures in the last column of Table AO. Thus the equality between final demand less imports and primary inputs is observed in the projections.

The direct and indirect effects on the primary inputs of industries of the patterns of final expenditure shown in Table AQ can also be calculated from Table BC. For example, the direct and indirect effects on the primary inputs of industries of a dollar of consumer expenditure can be calculated



by multiplying the figures in the first column of Table BC by \$.0638, those in the second column by \$.2128, and so forth. The sum of the five resulting columns gives the total direct and indirect effects on the primary inputs of industries of a dollar of consumer expenditure. This process can be repeated for the other three categories of final expenditure. The result is shown in Table BE:

TABLE BE

Direct and Indirect Effects on the Primary Inputs of Industries of a Dollar of Final Demand for Each Category of Final Demand

Matrix  $Y[I-DB]^{-1}DE$

	Final Expenditure Categories		
	P	G	F.C.F.
Commodity taxes	.0306	.0136	.0311
Indirect taxes	.0600	.0242	.0633
Wages & Salaries	.6088	.1990	.5223
Surplus	.2092	.0814	.2166
Total Primary Inputs of Industries	.8086	.3183	.8333

It can be seen from Table BE that the total direct and indirect effects on the primary inputs of industries of a dollar of final demand for each category of final expenditure are not equal to one dollar; they are equal to the amounts spent on commodities out of the dollar. Thus the totals shown in Tables AQ and BE are equal for each category of final expenditure. If to the direct and indirect effects on the primary inputs of industries are added the direct effects on the primary inputs of each category of final expenditure then the total for each category of final expenditure becomes one dollar.

The direct effects on the primary inputs of each category of final expenditure are calculated by dividing the figures in Diagram 3 showing the primary inputs associated with each category of final expenditure by the total for the category. These are shown in Table BF:

TABLE BF

Primary Inputs per Dollar of Final Expenditure  
(for primary inputs associated with categories of final expenditure)

Matrix  $S_f(f')^{-1}$

	Final Expenditure Categories		
	P	G	F.C.F.
Commodity taxes	.1914	.0909	.1667
Indirect taxes			
Wages and Salaries		.5908	
Surplus			

The sum of the direct and indirect effects on the primary inputs of industries plus the direct effects on the primary inputs of each category of final expenditure of a dollar of final demand for each category of final expenditure (the sum of Tables BE and BF) is shown in Table BG:

TABLE BG

Total Direct and Indirect Effects on Primary Inputs  
of a Dollar of Final Demand for Each Category of  
Final Expenditure

Matrix  $Y[I-DB]^{-1}_{DE} + S_f(\hat{f}')^{-1}$

	Final Expenditure Categories		
	P	G	F.C.F.
Commodity taxes	.2220	.1045	.1978
Indirect taxes	.0600	.0242	.0633
Wages and Salaries	.5088	.7899	.5223
Surplus	.2092	.0814	.2166
Total Primary Inputs	1.0000	1.0000	1.0000

Table BG can be used to calculate the impact on primary inputs of alternative projections of final expenditures in the same way that Table AT was used to calculate the impact on industry outputs.

### 3.4 Imports

With all of the impact Tables described so far, it is necessary to subtract estimates of total imports by commodity from final expenditures in order to derive the impact of final expenditures on industry and commodity outputs and on primary inputs. It has already been pointed out in Section 3.1 that it is difficult to estimate the imports associated with some particular element of final expenditure. For this reason the use of these impact tables was illustrated in terms of complete projections of final expenditures and imports.

Many important uses of Input-Output Tables involve the simulation of the impact on commodity and industry outputs and on primary inputs of specific events or policies. This kind of analysis is not necessarily carried out in the context of projections but may have the purpose of evaluating the costs and benefits of alternative courses of action. Since it is not practical to estimate independently the total imports directly and indirectly required by each course of action, the alternative is to construct impact tables which automatically allow for import leakages out of both final and intermediate demand.

Ideally such tables would be based on the following information: the total value of each element of intermediate and final demand would be separated into demand for domestic and demand for foreign goods and it would be assumed that the foreign commodities represent a fixed proportion of the total. For example if in addition to the information that Industry A of Diagram 3 absorbs \$8 billion of Commodity 4 it were known that \$.8 billion of this represents imports, then the ratio of \$.8 billion to \$8 billion could be assumed to represent the proportion that imports will always constitute

of Industry A's absorption of Commodity 4. When it came to calculating the intermediate input requirements of Industry A (Table AD) the intermediate input coefficient for Commodity 4 could be multiplied by  $1 - .1 = .9$  to determine the requirement for inputs of Commodity 4 produced domestically per unit of output of Industry A. If comparable information on the import content of each element of demand, both final and intermediate, were available it would be possible to determine the domestic portion of any given final demand and to calculate new impact tables based on intermediate input coefficients which would represent the absorption of domestic commodities per unit of output of each industry. With such impact tables it would be unnecessary to estimate total imports in advance.

Unfortunately the import content of each element of demand is not known; only in the case of exports is such information available because export documents distinguish exports of domestic goods from export of foreign goods. In the absence of such information the import content of any intermediate or final element of demand is usually estimated with the aid of the assumption that, for each commodity, imports will constitute a stable proportion of total demand. This assumption implies that the import of any element of the demand for a commodity can be calculated by multiplying that element by the overall ratio of imports to total demand for the commodity. In this way the same proportion of foreign to domestic goods is routed to each element of the demand for a commodity. An exception to this rule is made for exports since specific information on the import content of exports, i.e. on re-exports, is available. Thus, for each commodity, two ratios representing import content are calculated, one for exports and one for all other demand. The first ratio is calculated by dividing, for each commodity, re-exports by exports. The second ratio is calculated by dividing imports less re-exports by total demand less exports. These calculations are shown in Table BH:



TABLE BH

Re-Export and Import Content Coefficients  
Vectors  $\mu_1$  and  $\mu_0$

		Re- ex- ports	Ex- ports	Re-export Content Coefficients $\mu_1$	Imports less Re-exports	Total Demand less Exports	Import Content Coefficients $\mu_0$
Commodity	1		7	0	3	11	.2727
	2	1	11	.0909	17	30	.5667
	3			0		14	0
	4			0	1	35	.0286
	5		3	0	1	20	.0500

These re-export and import content coefficients are then subtracted from one in order to calculate coefficients representing the domestic content of exports and of other demand for each commodity. The result is shown in Table BI:

TABLE BI

Domestic Content Coefficients  
Vectors  $(1-\mu_1)$  and  $(1-\mu_0)$

		Domestic Content of Exports Coefficients	Domestic Content of Other Demand Coefficients
Commodity	1	1.0000	.7273
	2	.9091	.4333
	3	1.0000	1.0000
	4	1.0000	.9714
	5	1.0000	.9500

The coefficients in the second column of Table BI can now be used to calculate the domestic content of the intermediate input coefficients of industries. This is done by multiplying the figures in the first row of Table AD by .7273, those in the second row by .4333 and so forth. The result is shown in Table BJ:

TABLE BJ

Domestic Input Coefficients

Matrix  $(I - \hat{\mu}_O)B$

		I n d u s t r y		
		A	B	C
Commodity	1	.0474	.0623	.0269
	2	.0659	.0495	.0321
	3	.0435	.0571	.0370
	4	.1689	.2775	.1439
	5	.0619	.0814	.0352

In exactly the same way that Tables AD and AB were used to calculate impact Table AJ, Tables BJ and AB can be used to calculate impact Table BK:

TABLE BK

Direct and Indirect Effects on Domestic Industry  
Outputs of a Dollar of Final Demand for Each  
Commodity, Spent on Domestic Goods Only

Matrix  $[I - D(I - \hat{\mu}_O)B]^{-1}D$

		C o m m o d i t y				
		1	2	3	4	5
Industry Outputs	A	1.2299	1.1883	.8023	.2912	.1480
	B	.3017	.3519	.6228	1.3152	.2401
	C	.1443	.1467	.2964	.2772	1.0980
	Total	1.6759	1.6869	1.7215	1.8836	1.4861

The difference between impact Tables AJ and BK is that the former makes no allowance for import leakages whereas the latter allows for import leakages out of intermediate demand. However, Table BK is constructed as if the dollar of final demand for each commodity is spent on domestic commodities. It is also possible to calculate the impact of a dollar of final demand which is subject to a direct import leakage. The same assumptions involved in establishing import leakage out of intermediate demand are made here. However, two different impact tables are derived because a dollar of exports will have a different direct import content than a dollar of other final demand. Thus impact Table BL is derived from impact Table BK by multiplying the figures in each column of Table BK by the coefficient representing the domestic content of exports of the appropriate commodity while impact Table BM is derived from Table BK by multiplying the figures in each column by the coefficient representing the domestic content of other final demand, of the appropriate commodity:

TABLE BL

Direct and Indirect Effects on Domestic Industry  
Outputs of a Dollar of Exports of Each Commodity

Matrix  $[I - D(I - \hat{\mu}_0)B]^{-1}D(I - \hat{\mu}_1)$

		C o m m o d i t y				
		1	2	3	4	5
Industry Outputs	A	1.2299	1.0803	.8023	.2912	.1480
	B	.3017	.3199	.6228	1.3152	.2401
	C	.1443	.1334	.2964	.2772	1.0980
	Total	1.6759	1.5336	1.7215	1.8836	1.4861

TABLE BM

Direct and Indirect Effects on Domestic Industry  
Outputs of a Dollar of Final Demand, Other Than  
Exports, for Each Commodity

$$\text{Matrix } [I - D(I - \hat{\mu}_0)B]^{-1}D(I - \hat{\mu}_0)$$

		C o m m o d i t y				
		1	2	3	4	5
Industry Outputs	A	.8945	.5149	.8023	.2829	.1406
	B	.2194	.1525	.6228	1.2776	.2281
	C	.1049	.0636	.2964	.2693	1.0431
	Total	1.2188	.7310	1.7215	1.8298	1.4118

Comparison of impact Tables BL and BM with impact Table AJ shows the extent to which import leakages diminish the domestic industrial activity required per dollar of final demand for each commodity. Table AJ shows the situation if no part of demand is routed to imports. Tables BL and BM allow for normal import leakages. The difference is most striking in the case of commodity 2 for a dollar of final demand other than exports. This difference is explained by the fact that in the example of Diagram 3, imports of Commodity 2 constitute the bulk of total imports and a substantial proportion of the supply of Commodity 2. Although the figures in the example are hypothetical and the effect of import leakages exaggerated, a parallel might be drawn with the Canadian economy where Commodity 2 might correspond to manufactured goods.

In order to save space, no impact Tables comparable to Tables BL and BM are published in this Volume or in Volume 2. As indicated above, these Tables can very easily be calculated from Table BA given re-export and import coefficients. In fact it is just as easy to use Table BK itself to calculate the impact on domestic industry outputs of any final demand, provided the domestic content of the final demand is first calculated with the aid of the coefficients of Table BI. Thus, to calculate the impact on domestic industry outputs of an increase of \$100 million in the exports of Commodity 2 and of an increase of \$200 million in government expenditures



on Commodity 1, the domestic content of these expenditures is first calculated as \$145.46 million for Commodity 1 and \$90.91 million for Commodity 2. These figures are then used to multiply the figures in the first and second columns of Table BK. The sum of the two resulting figures for each industry represent the expected increase in the output of each industry:

TABLE BN

Impact on Industry Outputs of Increases of \$100 Million in the Exports of Commodity 2 and of \$200 Million in Government Expenditures on Commodity 1

(millions of dollars)

		C o m m o d i t y		TOTAL
		1	2	
Industry Outputs	A	178.90	108.03	286.93
	B	43.89	31.99	75.88
	C	20.99	13.34	34.33

The impact on commodity outputs of any final demand can also be calculated. The domestic content of the final demand for commodities is calculated as before with the aid of the coefficients of Table BI. The resulting industry outputs are also calculated as indicated above. These industry outputs are then used to calculate the domestic inputs of industries which constitute the domestic content of the intermediate demand for commodities. This calculation is performed by multiplying each column of Table BJ by the appropriate industry output. The sum of the domestic content of the final demand for commodities plus the domestic content of the intermediate demand for commodities is equal to the required commodity outputs.

Once again in order to save space no table comparable to Table BJ is published. However, the impact on commodity outputs of any final demand can be calculated using Table AD instead. The same steps are followed up

to the point where industry outputs have been calculated. These industry outputs are then used to calculate the total intermediate inputs of industries (both domestic and imported) through Table AD. The sums of these inputs for each commodity represent the intermediate demand for commodities. The domestic content of this intermediate demand is calculated with the aid of the coefficients in the second column of Table BI. The sum of the domestic content of the intermediate plus final demand for commodities equals commodity outputs. Using the previous example of an increase of \$100 million in the exports of Commodity 2 and of \$200 million in government expenditures on Commodity 1- which have a domestic content of \$90.91 million and \$145.46 million respectively and which require \$286.93 million of output in Industry A, \$75.88 million in Industry B and \$34.33 million in Industry C- the calculation of the impact on commodity outputs is shown in Table B0:

TABLE B0

Impact on Commodity Outputs of \$200 Million of Government  
Expenditures on Commodity 1 and \$100 Million of  
Exports on Commodity 2

(millions of dollars)

		Intermediate Inputs (Table AD Multiplied by Industry Outputs)				Domestic Content Coefficients (Table BI)	Domestic Content of Inter- mediate Demand	Domestic Content of Final Demand	Commodity Outputs
		Industry							
		A	B	C	Total				
Commodity	1	18.71	6.50	1.27	26.48	.7273	19.26	145.46	164.72
	2	43.67	8.67	2.54	54.88	.4333	23.78	90.91	114.69
	3	12.48	4.33	1.27	18.08	1.0000	18.08		18.08
	4	49.90	21.68	5.08	76.66	.9714	74.47		74.47
	5	18.71	6.50	1.27	26.48	.9500	25.16		25.16

The impact on imports of any final demand can also be calculated through the procedure outlined in Table B0 if the import and re-export content coefficients for intermediate and final demand are substituted for the domestic content coefficients. Using the same example the import content of final demand is calculated by applying the import content coefficient for Commodity 1 to the \$200 million of final demand for Commodity 1 and the re-export content coefficient for Commodity 2 to the \$100 million of final demand for Commodity 2. The remaining calculations are shown in Table BP:

TABLE BP

Impact on Imports of \$200 Million of Government  
Expenditures on Commodity 1 and \$100 Million  
of Exports of Commodity 2

(millions of dollars)

		Intermediate Inputs (Table AD Multiplied by Industry Outputs) Industry				Import Content Coefficients (Table BH )	Import Content of Inter- mediate Demand	Import Content of Final Demand	Imports
		A	B	C	Total				
Commodity	1	18.71	6.50	1.27	26.48	.2727	7.22	54.54	61.76
	2	43.67	8.67	2.54	54.88	.5667	31.10	9.09	40.19
	3	12.48	4.33	1.27	18.08	0	0		0
	4	49.90	21.68	5.08	76.66	.0286	2.19		2.19
	5	18.71	6.50	1.27	26.48	.0500	1.32		1.32



If, for certain kinds of analysis, it is necessary to calculate repeatedly the impact of different final demands on commodity outputs or on imports, it may be advantageous to construct impact tables which summarize the various calculations outlined in Tables BO and BP. This can be done by successively calculating the impact of one dollar of final demand for each commodity on commodity outputs and on imports, in the same way that the impacts of \$200 million for Commodity 1 and \$100 million for Commodity 2 were calculated in the example. The impact on commodity outputs or imports of any given final demand for a commodity will be a multiple of the impact of one dollar. The reader is reminded that two different impact tables must be calculated for both commodity outputs and imports because a dollar of exports will not have the same effect as a dollar of other final demand.

Impact tables with built-in import leakages can also be used, of course, for projection purposes. To illustrate this application, the projections of final demand set out in Table AO will be used to derive industry output projections. In this case, no projection of imports is required in advance. The first step is to determine the domestic content of the projections of final expenditures. Exports are handled separately from other final expenditures because they have a different domestic content. The relevant calculations are shown in Table BQ:

TABLE BQ  
Domestic Content of the Projections  
of Final Expenditures of Table AQ  
(billions of dollars)

		Exports	Domestic Content of Exports Coeffi- cients	Domestic Content of Exports	Other Final Demand	Domestic Content of Other Final Demand Coefficients	Domestic Content of Other Final Demand	Domestic Content of Total Final Demand
	Commodity							
	1	8.00	1.0000	8.00	6.00	.7273	4.36	12.36
	2	15.00	.9091	13.64	23.00	.4333	9.97	23.61
	3		1.0000		12.00	1.0000	12.00	12.00
	4		1.0000		20.00	.9714	19.43	19.43
	5	4.00	1.0000	4.00	18.00	.9500	17.10	21.10



The last column of Table BQ can now be used in conjunction with Table BK to derive projections of industry outputs. The result is:

(billions of dollars)

Industry Output Projections	A	61.67
	B	50.13
	C	37.36

Comparison of these projections of industry outputs with the projections immediately following Table AO reveals that in all cases the former are appreciably lower. The reason for this is that the increases in imports (over their levels in Diagram 3) projected in Table AO are relatively small by comparison with the increases in final expenditures. Thus, the projections of imports implicit in the present projections of industry outputs, which are determined by the magnitude of the import content coefficients built into Table BK, are considerably higher than the projections shown in Table AO. This can be verified by deriving the projection of imports through the procedure described in Table BP. The result is:

(billions of dollars)

Projections of Imports by Commodity	1	4.29
	2	24.53
	3	0
	4	1.44
	5	1.39

Which set of projections is more reasonable? There is no a priori answer to this question. The projections of imports of Table A0 imply a substantial decline in the role of imports as a source of supply for commodities. The present projections assign exactly the same role to imports as in the base-year. In actual applications of Input-Output analysis for projection purposes it may be desirable to use the impact tables with built-in import leakages to derive initial projections of imports which can then be modified on the basis of independent information (including the possible effects of import substitution policies). The modified projections of imports can then be used in conjunction with impact tables which do not involve built-in import leakages to derive projections of industry and commodity outputs and primary inputs.

\* \* \* \*

Impact tables similar to those described in Sections 3.2 and 3.3 can also be constructed on the alternative treatment of imports developed in the present section.

To measure the impact on domestic industry outputs of a hypothetical dollar of final demand for a particular category of final expenditure, the domestic content of that dollar can be estimated and applied to Table BK to derive its impact on industry outputs. The domestic content of a dollar of final demand for each category of final expenditure can be calculated by applying the domestic content coefficients of Table BI to the patterns of final expenditure of Table AQ. The result is shown in Table BR:

TABLE BR

Final Expenditures on Domestic Commodities by  
Category of Expenditure as a Proportion  
of Total Final Expenditures by Category of Expenditure

Matrix  $(I - \hat{u}_0)E$

Commodity		P	G	F.C.F.
	1	.0464	.0331	
	2	.0922	.0394	.1444
	3	.1064		.3333
	4	.2067	.1325	
	5	.2022	.0432	.1584
	6	.6539	.2482	.6361

The figures in each column of Table BG represent final expenditures on domestic commodities; their impact on industry outputs can be estimated through Table BK:

TABLE BS

Direct and Indirect Effects on Domestic Industry Outputs  
of a Dollar of Final Expenditure on Selected Categories  
of Final Expenditure

$$\text{Matrix} [I - D(I - \hat{\mu}_O)B]^{-1} D(I - \hat{\mu}_O)E$$

		P	G	F.C.F.
Industry Output	A	.3421	.1325	.4624
	B	.4331	.2085	.2964
	C	.3311	.0947	.2939

Table BS is an impact table comparable to Table AT but with import leakages built in. Nothing prevents the construction of an impact table showing the impact on domestic commodity outputs of a dollar of final expenditure on each category of final expenditure--the domestic content of final demand is already calculated in Table BR and the domestic content of intermediate demand can be calculate through the routine in Table BO, given the industry outputs in each column of Table BS.

Similarly a table showing the impact on imports can be calculated. The import content of final demand can be established by subtracting Table BR from Table AQ. The import content of intermediate demand can then be calculated through the routine described in Table BP. Of course, it is not worth calculating either of these impact tables unless they are to be used very frequently because otherwise it is less costly to calculate the impact of final expenditures on commodity outputs or import wihtout the aid of such tables.

The direct and indirect effects on primary inputs of either a dollar of final demand for each commodity or a dollar for selected categories of final expenditure can be calculated from Table BA and Tables BK and BS. The procedure is identical with the one followed in Section 3.3 in deriving Tables BC and BE from Table BA and Tables AJ and AQ. The results are shown in impact Tables BT and BU:

TABLE BT

Direct and Indirect Effects on the Primary Inputs of Industries  
of a Dollar of Final Demand for Each Commodity  
Spent on Domestic Goods Only

$$\text{Matrix } Y[I-D(I-\hat{\mu}_0)B]^{-1}D$$

	C o m m o d i t y				
	1	2	3	4	5
Commodity taxes	.0353	.0359	.0352	.0439	.0101
Indirect taxes	.0675	.0672	.0637	.0605	.0539
Wages and Salaries	.5075	.5074	.5183	.5125	.5880
Surplus	.2130	.2123	.2129	.2021	.2433
Total primary inputs	.8233	.8228	.8301	.8190	.8953

TABLE BU

Direct and Indirect Effects on the Primary Inputs of Industries  
of a Dollar of Final Demand for Each Category  
of Final Expenditure

$$\text{Matrix } Y[I-D(I-\hat{\mu}_0)B]^{-1}D(I-\hat{\mu}_0)E$$

	P	G	F.C.F.
Commodity taxes	.0198	.0088	.0185
Indirect taxes	.0395	.0152	.0395
Wages and Salaries	.3503	.1301	.3392
Surplus	.1431	.0527	.1402
Total primary inputs	.5527	.2068	.5374

Table BT is constructed as if the dollar of final demand for each commodity is spent on domestic goods only. Therefore, as in the case of Table BK, it is necessary to calculate the domestic content of any given final demand before applying it to Table BT to estimate the impact on primary inputs. The reader will note that the sum of the figures in each column of Table BT is less than one. This illustrates the effect of import leakages out of intermediate demand in measuring the impact on primary inputs of a dollar of final demand for domestic commodities. However, since import leakages out of final demand are not incorporated in the Table, it underestimates the total effect of import leakages. Impact tables incorporating



all import leakages can be calculated from Table BT by multiplying the figures in each column of the Table by the appropriate domestic content coefficients from Table BI. Two different impact tables will be obtained, reflecting the different domestic content of exports and of other final demand.

Table BU shows the direct and indirect effects on the primary inputs of industries of a dollar spent on selected categories of final expenditure. In this case all import leakages are taken into account. The direct effects on the primary inputs of these categories of final expenditure have already been calculated in Table BF. The total direct and indirect effects on primary inputs are shown in Table BV:

TABLE BV

Total Direct and Indirect Effects on Primary Inputs of a Dollar of  
Final Demand for Selected Categories of Final Expenditure

$$\text{Matrix } Y[I - D(I - \hat{\mu}_0)B]^{-1}D(I - \hat{\mu}_0)E + S_f(\hat{f}')^{-1}$$

	P	G	F.C.F.
Commodity taxes	.2113	.0997	.1852
Indirect taxes	.0395	.0152	.0395
Wages and Salaries	.3503	.7210	.3392
Surplus	.1431	.0527	.1402
Total primary inputs	.7442	.8886	.7041

The illustrations provided in Sections 3.2 and 3.3 can be adapted to impact tables incorporating built-in import leakages. The adaptation is left to the reader.

In the example of Diagram 3 and throughout this Chapter only competing imports, i.e. imports for which there is a counterpart in domestic production, have been considered. Non-competing imports have not been discussed because they present no particular problem. In the 1961 Tables they are included in primary inputs and are treated in exactly the same way as any other primary input.

### 3.5 Valuation

In the 1961 Canadian Input-Output Tables, valuation is at producers' prices as described in Chapter 2. In some analytical applications of these Tables, estimates of final demand and imports for past or subsequent years or projections of final demand and imports for future years are likely to be used in conjunction with the Tables. The figures for final demand available from various sources are not likely to be valued at producers' prices nor are the published figures on imports valued at the Canadian border plus import duties. The object of this Section is to provide a guide for the conversion of final demand and imports to the appropriate level of valuation so that they can be used in conjunction with the Tables.

In Input-Output Tables at producers' prices, the trade and transportation margins and the commodity taxes which constitute the difference between a transaction valued at purchasers' prices and the same transaction valued at producers' prices are recorded as if they constitute separate transactions of the purchaser. If, for example, governments purchase one hundred dollars worth of a commodity at purchasers' prices, fifteen dollars of which represent trade and transportation charges and five dollars commodity taxes, then governments are shown as purchasing eighty dollars of the commodity, fifteen dollars of transportation and trade, and as paying five dollars in commodity taxes.

In Diagram 3, commodity taxes are shown as a separate row and Commodity 5 can be thought of as representing trade and transportation charges. The entries in these rows represent the sum of the transport and trade charges and of the commodity taxes applicable to the intermediate use of all commodities by each industry and to the purchase of all commodities by each category of final demand.

Aside from imports, net exports and re-exports, information on categories of final demand is usually available at purchasers' prices. This information generally comes in two forms --either as the total expenditures for particular categories of final expenditure /1/ or as expenditures on specific commodities for categories of final expenditure.

---

/1/ The reader is reminded that the final version of the 1961 Input-Output Tables will contain fairly detailed breakdowns of categories of final expenditure as described in Chapter 2.

In the first case, the commodity and primary input composition of the total expenditures for particular categories of final expenditure can be estimated on the basis of the 1961 commodity and primary input composition of these expenditures; in terms of the example of Diagram 3, they can be estimated through Tables AQ and BF or through Tables BR and BF (if final expenditures on domestic goods are required). The coefficients of Tables AQ and BR are calculated from data at producers' prices so that the resulting estimates of the commodity composition of categories of final expenditure will also be valued at producers' prices and no further adjustment will be required. The figures for Commodity 5 will represent the accumulated trade and transport margins on the purchases of other commodities by each category of final demand. The figures for commodity taxes calculated from Table BF will similarly represent accumulated commodity taxes.

In the second case, where information on final demand at purchasers' prices is available by commodity, it will be necessary to convert it to producers' prices and to estimate the sum of trade and transport charges and the sum of commodity taxes.

In constructing the 1961 Tables the purchases of commodities by categories of final demand (and the use of commodities by industries) were estimated both at producers' and at purchasers' prices. Using the example of Diagram 3, the following type of information was estimated:

TABLE BW

Final Demand at Producers' Prices

(billions of dollars)

		P	G	F.C.F.	A Inv.
Commodity	1	3	1		
	2	10	2	4	1
	3	5		4	
	4	10	3		
	5	15	1	2	
Commodity taxes		2	2	2	
Total		47	9	12	1

TABLE BX

Trade and Transportation Charges  
on Each Element of Final Demand

(billions of dollars)

		P	G	F.C.F.	Δ inv.
Commodity	1	2.0	.2		
	2	6.0	.8	1.2	
	3	2.0		.8	
	4				
	5				
	Total	10.0	1.0	2.0	

TABLE BY

Commodity Taxes on Each Element of Final Demand

(billions of dollars)

		P	G	F.C.F.	Δ inv.
Commodity	1	1.0	.4		
	2	4.0	.8	1.3	
	3	2.0		.7	
	4	2.0	.8		
	5				
	Total	9.0	2.0	2.0	

TABLE BZ

Final Demand at Purchasers' Prices

(billions of dollars)

		P	G	F.C.F.	inv.
Commodity	1	6.0	1.6		
	2	20.0	3.6	6.5	1.0
	3	9.0		5.5	
	4	12.0	3.8		
Total		47.0	9.0	12.0	1.0



Table BX contains the distribution of trade and transport charges over each commodity. The totals for each column of Table BX correspond to the entries in the row for Commodity 5 of Table BW. Similarly Table BY contains the distribution of commodity taxes over each commodity and the column totals of the Table correspond to the entries in the commodity tax row of Table BW. Table BZ contains the sum of the corresponding entries of the first four rows of Tables BW, BX and BY.

The totals for each column of Tables BW and BZ are identical. In Table BZ the trade and transport charges (Commodity 5) and the commodity taxes of Table BW have been distributed over the other commodities.

Given Tables BX, BY and BZ, it is possible to convert final demand valued at purchasers' prices into final demand valued at producers' prices provided it is assumed that the trade, transport and tax content of each element of final demand will be a stable proportion of the purchasers' value. To perform this conversion it is therefore sufficient to calculate tables containing the ratios of trade and transport charges to purchasers' values for each element of final demand:

TABLE CA

Trade and Transport Charges as a Proportion  
of Final Demand at Purchasers' Prices

		P	G	F.C.F.	$\Delta$ inv.
Commodity	1	.3333	.1250		
	2	.3000	.2222	.1846	
	3	.2222		.1455	
	4				

TABLE CB

Commodity Taxes as a Proportion of Final Demand  
at Purchasers' Prices

		P	G	F.C.F.	Δ inv.
Commodity	1	.1667	.2500		
	2	.2000	.2222	.2000	
	3	.2222		.1273	
	4	.1667	.2105		

The use of Tables CA and CB to convert final demand at purchasers' prices to final demand at producers' prices is illustrated by the following example in which personal expenditure on consumer goods and services at purchasers' prices is given as:

(billions of dollars)

		P
Commodity	1	5
	2	24
	3	12
	4	15
Total		56

From Table CA it follows that the trade and transport charges on each commodity will be:

(billions of dollars)

		P
Commodity	1	1.6667
	2	7.2000
	3	2.6664
	4	
Total		11.5331

From Table CB it follows that the commodity taxes on each commodity will be:

(billions of dollars)

Commodity		P
	1	.8335
	2	4.8000
	3	2.6664
	4	2.5005
Total		10.8004

Consumer expenditures on Commodities 1 through 4 at producers' prices are obtained by subtracting trade and transport charges and commodity taxes from the purchasers' values. Consumer expenditures on transport and trade at producers' prices are obtained as the sum of transport and trade charges on Commodities 1 through 4. The corresponding commodity taxes are obtained as the sum of the commodity taxes estimated for Commodities 1 through 4. Thus, personal expenditures on consumer goods and services at producers' prices are estimated as:

Commodity		P
	1	2.4998
	2	12.0000
	3	6.6672
	4	12.4995
	5	11.5331
Commodity taxes		10.8004
Total		56.0000

The major sources of information on net exports, re-exports and imports are the Trade of Canada publications of the Dominion Bureau of Statistics. /1/ The valuation of the Trade of Canada figures does not correspond to the valuation in the 1961 Input-Output Tables, so that Trade of Canada figures on net exports, re-exports and imports must be adjusted before they are used in conjunction with these Tables.

In the 1961 Input-Output Tables imports are valued at the Canadian border including import duties. Trade of Canada imports are valued f.o.b. the country of last consignment which, in most cases, coincides with the country of origin; import duties levied on each commodity are tabulated separately. The difference between the two sets of figures (if import duties are added to the Trade of Canada figures) is made up of the transportation and insurance charges involved in conveying each commodity from its country of last consignment to the Canadian border. In the absence of current information on these charges, the Trade of Canada figures can be adjusted to the level of valuation of the 1961 Input-Output figures by assuming that transportation and insurance charges will constitute a stable proportion of the value of each commodity f.o.b. the country of last consignment. Similarly, it can be assumed that import duties will constitute a stable proportion of imports f.o.b. the country of last consignment. In terms of the example of Diagram 3, the following type of information has been estimated for imports:

TABLE CC

(billions of dollars)

		Imports at Canadian Border inclu- ding Duties	Import Duties	Transporta- tion and Insurance Charges	Imports f.o.b. Country of Last Consignment
Commodity	1	3.0	.3	.4	2.3
	2	18.0	3.6	1.4	13.0
	3				
	4	1.0			1.0
	5	1.0			1.0

/1/ Annual commodity export and import statistics appear respectively, in the December issue of D.B.S. cat.# 65-004 [monthly]; and the December issue of D.B.S. cat.# 65-007 [monthly].



The figures shown for Commodity 4 represent imports of services; there are no duties or transportation and insurance charges on such imports.<sup>/1/</sup> The figures for Commodity 5 represent imports of water and pipeline transportation. For example, American ships may carry Canadian goods between two points in Canada on the Great Lakes; this is a direct import of water transportation. It may be noted that imports of transportation services do not include estimates for passenger travel. No such estimates could be made for the preliminary 1961 Input-Output Tables. The figures on imports and exports of passenger travel are included in a balance of payments adjustment, described in Section 4.2.

Valuation conversion coefficients can be calculated from the information in Table CC by taking, for Commodities 1 and 2, the ratios of import duties and of transportation and insurance charges to imports f.o.b. the country of last consignment. These coefficients are shown in Table CD:

TABLE CD

Import Duties and Transportation and Insurance Charges as a Proportion of Imports f.o.b. the Country of Last Consignment

		Import Duties Coefficients	Transportation and Insurance Charges Coefficients
Commodity	1	.1304	.1739
	2	.2769	.1077

/1/ Summary data on imports and exports of transportation and other services appear in The Canadian Balance of International Payments and International Investment Position, D.B.S. cat.# 67-201 [annual]; see Section 4.2 for information on the detailed estimates made for the 1961 Input-Output Accounts.

The coefficients in Table CD can be applied to Trade of Canada imports to estimate import duties and transportation and insurance charges which can then be added to the Trade of Canada figures to derive estimates of imports at the Canadian border including import duties.

Trade of Canada figures on net exports /1/ are valued at the exporter's establishment. In some cases where the exporter of a commodity is also the producer, Trade of Canada net exports are, in fact, valued at producers' prices and require no valuation conversion. In other cases it is necessary to adjust for the transportation and trade charges making up the difference in the value of the net exports at the exporter (who may be a wholesaler) and at the producer. In Input-Output Tables at producers' prices these Transportation and Trade charges are entered as exports of transportation and trade; in terms of the example of Diagram 3 they are entered under Commodity 5. However, the entry for net exports of Commodity 5 also includes exports of the transportation charges involved in conveying exports from the exporter to the Canadian border.

In terms of the example of Diagram 3 the following type of information is available for net exports:

TABLE CE

(billions of dollars)

Commodity		Net Exports at Producers' Prices	Transportation and Trade Charges from Producers to Exporters	Trade of Canada Net Exports	Transportation Charges From Exporters to the Canadian Border	Net Exports at Purchasers' Prices
	1	7.0	.6	7.6	.7	8.3
	2	10.0	.9	10.9	.8	11.7
	3					
	4					
	5a	1.5				
	5b	1.5				

/1/ Trade of Canada publications use the term exports to signify net exports.

In Table CE, net exports of Commodity 5 have been separated into two parts, the first of which involves the transportation charges from producers to exporters plus the trade margins of the exporters, and the second, the transportation charges from exporters to the Canadian border. The second column of Table CE shows the distribution of transportation and trade charges from producers to exporters (Commodity 5a) over Commodities 1 and 2. The third column shows the corresponding Trade of Canada figures. The fourth column shows the distribution of transport charges from exporters to the Canadian border (Commodity 5b) over Commodities 1 and 2. The fifth column shows net exports valued at purchasers' prices. Columns 2, 3 and 4 of Table CE can be used to calculate valuation conversion coefficients for Trade of Canada figures on net exports:

TABLE CF

Valuation Conversion Coefficients for Net Exports: Transportation and Trade Margins as a Proportion of Trade of Canada Net Exports

		Coefficients of Producer-to-Exporter Margins	Coefficients of Exporter-to-Canadian Border Margins
Commodity	1	.0789	.0921
	2	.0826	.0734

The coefficients in the first column of Table CF can be applied to Trade of Canada figures on net exports to estimate transportation and trade charges from producers to exporters. These can be subtracted from the Trade of Canada figures to derive net exports of Commodities 1 and 2 at producers' prices. The sum of these transportation and Trade charges must be entered under Commodity 5 as exports of transportation and trade. The coefficients in the second column of Table CF can be applied to Trade of Canada figures on net exports to estimate transportation charges from exporters to the Canadian border. The sum of these transportation charges must also be entered under exports of Commodity 5.

In theory, the Trade of Canada figures on re-exports should also be adjusted. However, because re-exports are relatively unimportant, it was assumed that all margins on exports apply to net exports only and that no valuation conversion is therefore required for re-exports.

Table CG brings together the various valuation conversion coefficients shown in Tables CA, CB, CD and CF:

TABLE CG

Valuation Conversion Coefficients

Commodity		Consumer Expenditure: Trade and Transporta- tion Margins	Consumer Expenditure: Commodity Taxes	Government Expenditure: Trade and Transporta- tion Margins	Government Expenditure: Commodity Taxes	Gross Fixed Capital Formation: Trade and Transportation Margins	Gross Fixed Capital Formation: Commodity Taxes	Net Exports: Producer to Exporter Margins	Net Exports: Exporter to Canadian Border Margins	Imports: Import Duties	Imports: Transporta- tion and Insurance Margins
	1	.3333	.1667	.1250	.2500			.0789	.0921	.1304	.1739
	2	.3000	.2000	.2222	.2222	.1846	.2000	.0826	.0734	.2769	.1077
	3	.2222	.2222			.1455	.1273				
	4		.1667		.2105						

No valuation conversion coefficients are shown for inventory change. This is not because in this hypothetical example they are equal to zero, but because no estimates of inventory change are usually made in specifying final demand for a year other than the base-year.



It should be noted that the valuation conversion coefficients for imports can be used to calculate imports f.o.b. the country of last consignment given the solutions for imports (valued at the Canadian border including import duties) derived from Table BP of section 3.4. To calculate imports f.o.b. the country of last consignment it is sufficient to divide, for each commodity, imports at the Canadian border including import duties by one plus the sum of the two import valuation conversion coefficients. The purpose of these calculations would be to compare the solutions for imports derived from impact tables with time series for imports from the Trade of Canada publications.

### 3.6 Limitations and Potential

The logic in the process of using the impact tables developed in this Chapter to estimate requirements for output, given final demand, can be summarized as follows:

- i) to deliver commodities of a certain value to final demand it is necessary to determine the manner in which these commodities will be supplied; the possible sources of supply are domestic industries and imports; /1/
- ii) if the commodities delivered to final demand are supplied from imports, there is, of course, no requirement for domestic production;
- iii) if the commodities delivered to final demand are supplied by domestic production, additional deliveries of commodities are required as intermediate inputs to the industries supplying commodities to final demand; these intermediate inputs are determined by allocating production to particular industries through the market share assumption and calculating the input requirements

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/1/ Inventories can either be a source of supply or a final demand for commodities, depending on whether there is decumulation or accumulation of inventories. Under the customary assumption of no change in inventories they play neither role.

of each industry on the basis of the industry technology assumption;

- iv) the additional delivery of commodities for intermediate use requires, once again, a choice between sources of supply. Steps (ii) and (iii) of the process are repeated for deliveries for intermediate use until all requirements for domestic production and imports /1/ have been calculated;
- v) given total requirements for industry outputs associated with a delivery to final demand, the corresponding primary input requirements can be calculated by assuming that primary inputs are proportional to industry outputs. Indeed, requirements for any variables which can be assumed to be proportional to industry outputs can be calculated; employment requirements are a notable example. /2/

The process just described cannot be interpreted as a sequence of events in time. This point bears emphasizing. The calculation of requirements for domestic outputs is an exercise in balancing a set of accounts. The balancing process answers the following question: given deliveries of commodities to final demand valued at so much, and given imports (however they may be calculated) what must domestic outputs be to sustain these deliveries, on the assumption of constant market shares and industry technology. The rounds of impact involved in the calculation of impact tables imply no time sequence; they are a method for calculating the total outputs required to balance the accounts.

The interpretation of the use of Input-Output Tables for projection follows from the preceding considerations. Projections of industry and commodity outputs and primary inputs based on projections of final demand and imports can be interpreted as the outputs and primary inputs required in the projection year, to sustain the deliveries to final demand in the projection year, given projected imports. The market share and industry

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/1/ There are two ways of estimating imports: total direct and indirect requirements for imports can be specified in advance; alternatively, import requirements can be built into impact tables through import content coefficients.

/2/ See Appendix A, Section A.3.

technology assumptions determine that there will only be one set of commodity and industry outputs compatible with the projected deliveries in final demand.

The use of impact tables to test the implications for domestic production (and consequently for incomes and employment) of particular events or policies involves a similar rationale. Under the assumption that the coefficients from the base period table are stable, that is, that they apply currently and will continue to apply in the future, the question is: what outputs would be required to maintain the balance of the system in meeting the specific changes in final demand implied by the specific event or policy? Again, nothing can be said about any timing aspects of the adjustment process.

The validity of the analysis carried out with the aid of the impact tables developed in this Chapter depends on the validity of the market share, industry technology, and import content assumptions. The deliveries to final or intermediate demand determined by these assumptions always take place; no mechanism is provided whereby supply conditions can interfere with, or modify, these deliveries. To appreciate what this means, it is necessary to remember that deliveries are defined in terms of values of commodities delivered. The changes in prices which would result from the normal interaction of supply and demand, and which would therefore change the value of these deliveries and also cause substitution among the commodities delivered, are allowed no play. /1/ The base-year observations from which coefficients are calculated reflect the interaction of supply and demand: the use of intermediate inputs by industries in the base-year is not only a function of the technological requirements of industries but is also affected by supply conditions. Thus, the intermediate inputs observed in the base-year are the product of a state of disequilibrium in which supply is in the process of adjusting to demand and demand is in the process of adjusting to supply.

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/1/ This point is not only related to the question of deflating Input-Output Tables; the interaction of demand and supply would cause changes in the "constant dollar" values of commodities delivered. In fact it has been observed that changes in prices and quantities of deliveries may tend to compensate so that Input-Output Tables valued in current dollars may be more appropriate for analysis than constant dollar tables.



Yet impact tables are calculated on the assumption that the base-year intermediate inputs reflect pure technological requirements which can be fulfilled without adjustment. Similarly the market shares of industries and of imports, which in the base-year emerge from the interaction of many factors, are assumed to remain constant under conditions other than those of the base-year. Such considerations have led many economists to suggest that Input-Output analysis is a dead end.

While that view is still fairly widespread, the compilation and use of Input-Output Tables is nevertheless growing at a very rapid rate. The arguments in favour of Input-Output analysis can be summarized as follows: the delivery of commodities to intermediate and final demand does get allocated among domestic industries and imports; the market share and import content assumptions provide an approximation of the actual allocation. To produce their outputs, industries do require intermediate inputs; the industry technology assumption provides an approximation of these requirements. There is also evidence that to some extent errors in the allocation of demand and in the determination of requirements for intermediate inputs tend to cancel out. Consequently Input-Output Tables can be used to determine the approximate outputs, primary inputs and imports associated with any given final demand. For many purposes the approximation involved is acceptable. In any case, there are no alternative techniques for measuring the propagation of demand in a disaggregated system.

The degree of approximation in Input-Output analysis depends on a number of factors. It has been observed that input, market share and import content coefficients tend to change over time. Hence for some purposes it is important to use Input-Output Tables which are reasonably up-to-date. The complete compilation of Input-Output Accounts is a very time consuming process, but techniques have been developed for updating existing accounts on the basis of partial information for a later year coupled with mathematical procedures designed to balance the Accounts in that year. /1/ The 1961 Input-Output Accounts will be updated when the final revisions of the 1961 data have been completed.

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/1/ See MATUSZEWSKI et al. [1963] and [1964], and STONE and BROWN [1962].



The tendency of coefficients to change over time implies that to use Input-Output Tables for projection purposes it is necessary to project changes in these coefficients. There are no well established techniques for making such projections - the best results to date have been obtained by asking knowledgeable people to project the introduction of new techniques and marketing patterns.

Aggregation is an important source of error in Input-Output analysis. The hypothesis that the inputs of industries will be proportional to their outputs irrespective of the commodity composition of these outputs becomes less tenable as the definition of industries broadens. When industries are defined narrowly so that each produces only a few commodities which have similar input structures the industry technology assumption is more justifiable. For this reason the 1961 Canadian Tables have been compiled in considerable detail. /1/

The impact tables described in this Chapter are the simplest analytical tools that can be defined on the basis of the information contained in the 1961 Input-Output Accounts. A number of more complex models have been developed, some of which are discussed in Appendix A, Sections A.6 to A.10. In general these models replace the industry technology, market share and import content assumptions with more sophisticated assumptions which allow coefficients to change in response to the conditions under which the models are being operated. In particular, the input coefficients of industries can be made to depend on the level and commodity composition of industry outputs while market share and import content coefficients can become subject to scale and capacity effects. Moreover market share coefficients can be made to vary according to the source of demand (particular categories of final demand or particular industries) and can be modified to allow for special handling of by-products and joint products.

In these models, demand is still the prime mover. The models calculate the domestic outputs and imports required to make given deliveries to final demand. However, the more sophisticated manner in which these requirements are calculated improves the accuracy of the calculations.

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/1/ See Chapters 4 and 5 and Appendix B.

Input-Output models in which the passage of time is explicitly taken into account have also been developed. These are "dynamic" Input-Output models which incorporate capacity building activities triggered by increases in industry outputs beyond existing capacity levels. The very complex interactions between levels of output, expectations and capacity building and the very complex timing involved in these interactions are represented in these models by very simple functions. It remains to be seen whether disaggregated Input-Output models can be made to approximate the evolution of the economy over time.

## CHAPTER 4

### DESCRIPTION OF PUBLISHED TABLES

The 1961 Input-Output Tables have been compiled on the basis of 187 industries and 644 commodities. At this worksheet level of detail, many of the entries in the various matrices are confidential under the provisions of the Statistics Act. The data in Volume 1 and Volume 2 are published at three levels of aggregation: /1/

<u>Designation of Aggregation</u>	<u>Number of Industries</u>	<u>Number of Competitive Commodities</u>	<u>For Table Numbers:</u>
S	16	40	1 to 7 (Volume 1)
M	65	65	8 to 12 (Volume 1)
L	110	197	13 to 17 (Volume 2)

With two exceptions, comparable tables are published for each level of aggregation. The exceptions are the output and market share matrices for aggregations M and L which are not published because they contain a considerable number of confidential entries.

All of these tables are preliminary. They will be published in final form when they have been reconciled with the revised estimates of the Income and Expenditure Accounts. At that time, additional detail on the structure of final demand will also be published, together with the impact tables based on models using this information as described in Appendix A, Section A.2.

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/1/ The commodity and industry classification systems for the worksheet level of detail and for aggregations S, M and L appear in Appendix B and are described in Chapter 5.

#### 4.1 Services to Users

The published tables can be furnished to users in machine readable form, that is, on cards or tape; moreover, tables for alternative aggregations can be programmed and requests from users for such aggregations will be considered. A charge to the user will be made to cover the cost of services provided. /1/

#### 4.2 Description of Each Published Table

Tables 1 and 8 (Volume 1) and Table 13 (Volume 2) show the values of inputs into industries and the values of final expenditures for aggregations S, M and L. In these tables, imports are shown as a negative column of demand, rather than as a supply row (as in Diagram 1, Chapter 1, and in Diagram 2, Chapter 2). In addition, a "Balance of Payments Adjustment" row and an entry for total customs import duties are introduced (see Table A below).

The positive entry of \$515.0 million in the row for Commodity Taxes and the column for Imports is the total value of customs import duties. Since all other (negative) entries in the Import column include duties, the net result is that:

- i) the column total for Imports excludes duties;
- ii) the row total for Commodity Taxes includes duties.

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/1/ Contact: Input-Output Research and Development Staff  
Economic Statistics Branch  
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TABLE A

## Industry Inputs and Final Expenditures, 1961- Summary

(millions of dollars)

	Total Industry Inputs	Net Exports	Re- Exports	Less: Imports	Inven- tory Change	Other Final Demand	Total	Row Numbers		
								Table 1 (sum of rows 1-40)	Table 8 (sum of rows 1-65)	Table 13 (sum of rows 1-197)
Total Competitive Commodities	32,662.5	6,291.3	134.8	-6,687.1	-62.2	32,877.7	65,217.0	41	66	198
Primary Inputs:										
Non-Competing Imports	209.0	-	0.6	-301.5	2.9	89.0	-	41	66	198
Balance of Payments Adjustment	-	798.9	-	-934.4	-	135.5	-	42	67	199
Commodity Taxes	562.3	1.0	-	515.0	14.9	1,951.1	3,044.3	43	68	200
Subsidies	-311.4	-	-	-	-	-	-	44	69	201
Indirect Taxes & Gov't. Services	1,928.1	-	-	-	-	-77.9	1,850.2	45	70	202
Wages, Salaries & S.L.I.	16,432.1	-	-	-	-	4,293.1	20,725.2	46	71	203
Net Income of Unincorp- orated Business	3,683.1	-	-	-	-	-	3,683.1	47	72	204
Surplus	10,051.2	-	-	-	-	566.0	10,617.2	48	73	205
Sub-total Primary Inputs	32,554.5	799.9	0.6	-720.9	17.9	6,956.8	39,608.7	49	74	206
Total	65,217.0	7,091.2	135.4	-7,408.0	-44.3	39,834.5	104,825.7	50	75	207

Table 1	17	18	19	20	21	22	23
Table 8	66	67	68	69	70	71	72
Table 13	111	112	113	114	115	116	117

Column  
Numbers

Entries in the Balance of Payments Adjustment row occur only in the Net Export, Import and Other Final Demand columns. These entries are the result of the attempted reconciliation of exports and imports in the preliminary 1961 Input-Output Accounts with worksheet detail from the D.B.S. Balance of International Payments.

Of the resulting totals for Net Exports and Imports, the following amounts remain unallocated, that is, they have not yet been distributed over detailed commodity and other expenditure items:

<u>Balance of Payments Categories</u> (items #1 - 6)	<u>Net Exports</u>	<u>Imports</u>
	(millions of dollars)	
1. Adjusted Merchandise Trade (mainly "special trade" transactions)	16.2	97.5
2. Travel Expenditures	482.0	642.0
Freight and Shipping:		
3.     Expenditure in Canada (Abroad) of Foreign (Canadian) Ocean Shipping	67.0	62.0
4.     Other Freight and Shipping	72.3	-16.0
5. Government (excluding official contributions)	70.0	111.0
6. Business Services	91.4	60.3
Sub-total	(798.9)	(956.8)
7. Less: Overallocated Import Duties		-22.4
Total Unallocated	<u>798.9</u>	<u>934.3</u>

For each commodity, Other Final Demand in these preliminary Input-Output Tables is largely a residual estimate derived by subtracting, from domestic production, the uses of the commodity by each industry, exports, and inventory change, and by adding imports. If some exports remain unallocated, then Other Final Demand classified by commodity is overstated; conversely, if some imports are unallocated, then Other Final Demand for commodities is overstated. It follows that an entry of \$135.5 million for unallocated Other Final Demand is required to offset the amounts of unallocated exports and imports.

For item #3, the totals on the export and import sides are similar, and so probably are the commodity content values. Hence there should be little net effect on the detailed commodity content of Other Final Demand. This is less true for items #1, 2 and 5, where the unallocated import values are substantially above those for exports.

The amounts shown in item #4 and a substantial portion of those in #6 (\$63.9 million in exports; \$13.8 million in imports) represent differences in estimates for these categories between the Balance of Payments and the preliminary Input-Output Accounts. Until a reconciliation is carried out, the Balance of Payments totals have been accepted, so that these amounts appear as unallocated.

Estimates of the values of customs import duties included in the detailed commodity imports of the preliminary Input-Output Tables are based on tabulations by the External Trade Division of D.B.S.; the total of these is \$537.4 million and is before duty rebates. Due to serious data problems, it has not yet been feasible to distribute the rebates over the relevant commodity import values, which therefore are overstated by the amounts of the rebates. Given the total \$515.0 million for customs import duties in the Income and Expenditure Accounts (which is after deduction of rebates), a net adjustment of \$-22.4 million (item # 7) is required and is treated as unallocated in the Balance of Payments Adjustment row.

Research will be undertaken, in connection with the forthcoming revision of the 1961 Input-Output Tables, to attempt to estimate the commodity distributions and reconciliations for items included in the Balance of Payments Adjustment row.



In Table A, the figure of \$-77.4 million in the row for Indirect Taxes and Government Services and the column for Other Final Demand is the offset to the sum of charges to industries for "government services". Since \$77.4 million represents the revenues of governments for such services, it is entered with a negative sign in the column which includes government expenditure, that is, in the column for Other Final Demand. Estimates for "government services" purchased by persons (also part of Other Final Demand) offset the related negative entries for governments; the result is a zero entry in Other Final Demand. Therefore, the net result is that the total of the Indirect Taxes and Government Services row represents only the total of (non-commodity) Indirect Taxes.

From Table A, the preliminary Input-Output estimates of 1961 Gross Domestic Expenditure and Gross Domestic Product can be calculated:

TABLE B

Gross Domestic Expenditure and Gross Domestic Product, Canada, 1961

(based on preliminary 1961 Input-Output Accounts)

	(millions of dollars)
Exports of Goods and Services	7,226.6
Net Exports (Domestically Produced Exports)	7,091.2
Re-Exports	<u>135.4</u>
Value of the Physical Change in Inventories(Business)	-44.4
Other Final Expenditure on Goods and Services	39,834.5
Deduct: Imports of Goods and Services	<u>-7,408.0</u>
GROSS DOMESTIC EXPENDITURE AT MARKET PRICES	<u>39,608.7</u>
<hr/>	
Wages, Salaries, and Supplementary Labour Income /1/	20,725.2
Net Income of Unincorporated Business /2/	3,683.1
Surplus	10,617.2
Sub-total: GROSS DOMESTIC PRODUCT AT FACTOR COST	(35,025.2)
Indirect Taxes less Subsidies	4,583.1
Commodity Taxes	3,044.3
Indirect Taxes (non-commodity)	1,850.2
Subsidies	<u>-311.4</u>
GROSS DOMESTIC PRODUCT AT MARKET PRICES	<u>39,608.7</u>

/1/ Includes Military Pay and Allowances.

/2/ Includes Net Income of Farm Operators from Farm Production.



It bears repeating that the totals and their components as published here are preliminary; they have not been completely reconciled with the revisions to the Income and Expenditure Accounts.

Diagrams 4 to 11 below show the schematic frameworks of Tables 1 to 6, 8 to 11, and 13 to 16 (Tables 7, 12 and 17 are described verbally following Diagram 11). Where the same framework applies to two or three of the aggregations, one diagram shows the frameworks of two or three tables. For example, the identical framework is used for the three tables showing the "Values of Industry Inputs and Final Expenditures, 1961"; these are: Table 1 for aggregation S; Table 8 for aggregation M; Table 13 for Aggregation J. This framework is shown in Diagram 4.

In the diagrams, each of the sub-matrices encompassed by the solid lines (aside from certain "sub-total" rows and columns) contains one or more of the following pieces of information:

- 1) a verbal definition of the content;
- ii) the "number" of the corresponding table from Chapter 3;
- iii) the (mathematical) matrix notation used in Appendix A.

For example, at the intersection of the "Industries" columns and "Competitive Commodities" rows in Diagram 4, "Table AC" indicates the content is identical in concept to Table AC in Chapter 3, while the letter "U" is the matrix notation used for this sub-matrix in the mathematical models developed in Appendix A.

In the "Impact Tables" (Tables 5, 6, 10, 11, 15 and 16) which are described in Diagrams 8, 9, 10 and 11, the 1961 value data on final demand for competitive commodities by category of final demand and on imports of competitive commodities are repeated for the convenience of the user. Also shown in Tables 6, 11 and 16 are the 1961 "import coefficients" and "re-export coefficients" comparable in concept to those shown in Table BH in Chapter 3.

The relevant row numbers for the tables being described appear in the dotted boxes to the right of the diagram, and the table column numbers appear in the dotted boxes at the bottom of the diagram.



Schematic Framework of Tables 2, 9 and 14 (Aggregations S, M and L)  
(Industry Input and Final Expenditure Coefficients 1961)

	Industries	Sub-total Industries	Final Demand and Imports				Row Numbers		
							Table 2	Table 9	Table 14
Competitive Commodities	Table AD		.	.	.	.			
	B		.	.	.	.	1-40	1-65	1-197
Primary Inputs	Table BA		.	.	.	.			
	Y		.	.	.	.	41-48	66-73	198-205
Sub-total Primary Inputs			.	.	.	.	49	74	206
Column Totals	$i' (t)$		.	.	.	.	50	75	207

  

	1 - 16	17	18	19	20	21	22
Table 2	1 - 16	17	18	19	20	21	22
Table 9	1 - 65	66	67	68	69	70	71
Table 14	1 - 110	111	112	113	114	115	116

Table A9 contains final expenditure coefficients only for personal expenditure, government expenditure and gross fixed capital formation which in Tables 2, 9 and 14 are aggregated into a single column. However, in principle, Table A9 could encompass all other categories of final demand and imports.

D I A G R A M    6

Schematic Framework of Table 3 (Aggregation S)

(Value of Industry Outputs, 1961)

		Row Numbers
	Competitive Commodities	Table 3
Industries	Table AA V	1 - 16
	Commodity Outputs $q'$	17
Total		
Column Numbers	Table 3	1 - 40

D I A G R A M    7

Schematic Framework of Table 4 (Aggregation S)

(Market Share Coefficients, 1961)

		Row Numbers
	Competitive Commodities	Table 4
Industries	Table AB D	1 - 16
	$i'(r)$	17
Total		
Column Numbers	Table 4	1 - 40



D I A G R A M    8

Schematic Framework of Tables 5 and 15 (Aggregations S and L)  
(Impact Tables Without Import Leakages, 1961)

		<u>Row Numbers</u>	
Competitive Commodities		Table 5	Table 15
Final Demand Less Imports	Net Exports $x' - x'_m$		
	Re-Exports $x'_m$		
	Less: Imports $-m'$		
	Physical Change in Inventories $\Delta \text{ inv.}'$		
	Other Final Demand $e^o - \Delta \text{ inv.}'$		
Industries	Table AJ $[I - DB]^{-1}D$	1-16	1-110
Primary Inputs	Table BC $H = Y[I - DB]^{-1}D$	17-24	111-118
Sub-total Primary Inputs	$i'_{(p)}H = i'_{(r)}$	25	119
Column Numbers	Table 5	1 - 40	
	Table 15	1 - 197	

D I A G R A M 9

Schematic Framework of Table 10 (Aggregation M)  
(Impact Table Without Import Leakages, 1961)

Industries	Competitive Commodities	Final Demand Less Imports				Row Numbers
		Net Exports	Re-Exports	Less: Imports	Physical Change in Inventories	
	Table AJ					
	$[I - DB]^{-1}D$	$x - x_m$	$x_m$	$-m$	$\Delta \text{ inv.}$	1 - 65
					Other Final Demand	
					$e^o - \Delta \text{ inv.}$	
Primary Inputs	Table BC					66 - 73
	$H = Y[I - DB]^{-1}D$					
Sub-total Primary Inputs	$i' (p)^H = i' (r)$					74
Column Numbers	Table 10	66	67	68	69	70

Note: the elements of each category of final demand and of imports are not classified by industry, as is implied in the diagram, but by competing commodity. Since there is a one-to-one correspondence between industries and "principally produced" commodities, the industrial classification is used as a proxy for the commodity classification.

D I A G R A M 10

Schematic Framework of Tables 6 and 16 (Aggregations S and L)

(Impact Tables With Import Leakages, 1961)

	Competitive Commodities	Row Numbers	
		Table 6	Table 16
Final Demand Less Imports	Net Exports $x' - x'_m$		
	Re-Exports $x'_m$		
	Less: Imports $- m'$		
	Physical Change in Inventories $\Delta \text{ inv.}'$	first seven unnumbered rows for both tables	
	Other Final Demand $e^o' - \Delta \text{ inv.}'$		
Import Coefficients	Table BH $\mu'_0$		
Re-Export Coefficients	Table BH $\mu'_1$		
Industries	TABLE BK $[I - D(I - \hat{\mu}_0)B]^{-1}D$	1-16	1-110
Primary Inputs	Table BT $K = Y[I - D(I - \hat{\mu}_0)B]^{-1}D$	17-24	111-118
Sub-total Primary Inputs	$i'(p)^K$	25	119
Column Numbers	Table 6	1 - 40	
	Table 16	1 - 197	

D I A G R A M 11

Schematic Framework of Table 11 (Aggregation M)  
(Impact Table With Import Leakages, 1961)

	Competitive Commodities	Final Demand Less Imports				Import Coefficients	Re-Export Coefficients	Row Numbers
		Net Exports $x - x_m$	Re-Exports $x_m$	Less: Imports $-m$	Physical Change in Inventories $\Delta \text{ inv.}$	Other Final Demand $e^o \text{ inv.}$		
Industries	Table BK $[I-D(I-\hat{u}_o)B]^{-1}D$					Table BH	Table BH	1 - 65
Primary Inputs	Table BT $K=Y[I-D(I-\hat{u}_o)B]^{-1}D$					$\mu_o$	$\mu_1$	66 - 73
Sub-total Primary Inputs	$i'(p)^K$							74
Col. Table Nos.	1 - 65	66	67	68	69	70	71	72

Note: the elements of each category of final demand and of imports are not classified by industry, as is implied in the diagram, but by competitive commodity. Since there is a one-to-one correspondence between industries and "principally produced" commodities, the industrial classification is used as a proxy for the commodity classification.



It has been noted in Section 3.5 that regularly published annual or sub-annual detail for final demand categories and imports is valued differently from the detail for corresponding categories in the 1961 Input-Output Accounts. Table 7 (for aggregation S), Table 12 (for aggregation M) and Table 17 (for aggregation L) provide valuation conversion coefficients, derived from the worksheets for the 1961 Input-Output Accounts, comparable in concept to those described in Section 3.5. The three tables share a common framework; therefore the following discussion is applicable to each of the tables.

The headings of columns 1 and 2 of these tables refers to "Trade of Canada Exports" and those of columns 3 and 4 to "Trade of Canada Imports". This is not quite accurate; more precisely, the references should be to Trade of Canada data adjusted for Balance of Payments purposes, that is, to the "Adjusted Merchandise Trade" concept from the Balance of Payments. In particular, imports and exports of ships and aircraft are often substantially affected by these adjustments.

With this qualification, the coefficients in column 1 of Tables 7, 12 and 17 correspond in concept to those in 7th column of Table CG (Section 3.5); coefficients in column 2 correspond to those in the 8th column of Table CG; coefficients in column 3 correspond to those in the 10th column of Table CG; coefficients in column 4 correspond to those in the 9th column of Table CG.

It will be noted from Tables 1, 8 and 13 that there is \$1.0 million in commodity taxes in the Net Export column; this is the estimated tax on the export of electricity, and the value has been included with the trade and transportation margins in calculating the relevant coefficient in column 1 (for commodity 34 in Table 7; for commodity 58 in Table 12; for commodity 184 in Table 17).

The valuation of imported goods at the Canadian border inclusive of transportation costs results in an overstatement of imports to the extent that the goods were carried to the Canadian border by domestic carriers. Balance is maintained by reducing the absolute value of imports of transportation services (imported transportation services not associated with the imports of goods) by the estimate of the value of Canadian transport services employed in conveying imported goods to the Canadian border.

Columns 5 and 6 of Tables 7, 12 and 17 contain valuation conversion coefficients for Other Final Demand. The coefficients in column 5 are comparable in concept to the coefficients for trade and transportation charges as shown in the 1st, 3rd and 5th columns of Table CG. The coefficients in column 6 are comparable to the coefficients for commodity taxes as shown in the 2nd, 4th and 6th columns of Table CG.

The term "purchasers' prices", as it applies to these two columns of coefficients, requires special explanation. In the commodity flow studies for the 1961 Input-Output Accounts, provincial and municipal retail sales taxes were not allocated by commodity (however, provincial motor fuel taxes and provincial and municipal amusement taxes were allocated). Hence the term "purchasers' prices" used here excludes provincial and municipal retail sales taxes. The estimate for the total value of such commodity taxes applicable to Other Final Demand in 1961 is included in the figure at the intersection of the row for Commodity Taxes and the column for Other Final Demand in Tables 1, 8 and 13.

## CHAPTER 5

### CLASSIFICATION SYSTEMS AND SELECTED DEFINITIONS

This Chapter describes the sector, industry and commodity classification systems of the 1961 Input-Output Tables. It also explains certain concepts and definitions not dealt with in Chapters 1 and 2.

#### 5.1 Sectors and Industries - the Business Sector

The production and expenditure accounts of the System of National Accounts are divided into four sectors - business, government, personal, and non-resident. The business sector of the Input-Output Tables is subdivided into industries which are defined according to the D.B.S. Standard Industrial Classification (S.I.C.) /1/

The S.I.C. is a system for classifying accounting units which are known as establishments. This classification system applies to all establishments in the economy. Some S.I.C. Industries are composed of

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/1/ D.B.S. cat.#12-501 [1960].

establishments which do not belong in the business sector; for example, churches and synagogues, which are part of the personal sector, are classified in the S.I.C. to Industry 831 - Religious Organizations. Other S.I.C. Industries have establishments in the business sector and in one or both of the government and personal sectors; for example, hospitals, which occur in all three sectors, are classified in the S.I.C. to industry 821 - Hospitals.

The S.I.C. is a classification of establishments; it is not a classification of enterprises, firms, activities or commodities. "For statistical purposes, the 'establishment' is defined as the smallest unit which is a separate operating entity capable of reporting all elements of basic industrial statistics. This means that for purposes of industrial surveys, data are gathered from the most homogeneous units that maintain accounts which permit them to report on their main elements of input and output"/1/

In the business sector, the establishment must be distinguished from the firm, which is the legal entity. Typically, the establishment is the mine in mining, the plant in manufacturing, the store in retail trade, etc. The majority of firms have only one establishment but many firms, particularly the larger ones, have more than one establishment. The establishments of a multi-establishment firm may or may not be classified to the same S.I.C. Industry.

At the worksheet level of detail (187 industries) many Input-Output Industries correspond to S.I.C. Industries at the "three-digit" level of the S.I.C., while others represent groupings of S.I.C. Industries. As noted above, Input-Output Industries include only establishments in the business sector.

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/1/ D.B.S. cat. #12-501 [1960], p.8.



## 5.2 Government Enterprises and the Government Sector

The revised version of the 1961 Input-Output Tables, which will be published later will contain additional detail on the expenditures of categories of final demand (see Section 2.2). Establishments in the government sector will be grouped according to purpose or function (health, education, etc.) These groupings will correspond closely, although not precisely, to S.I.C. Industries.

Certain crown corporations, departments, boards, commissions and other agencies of federal, provincial and local governments are considered to be "government enterprises". In the production and expenditure accounts of the System of National Accounts, their activities are classified in the business sector. Principles have been established for distinguishing between government sector activities and government enterprises:

Those services of a general nature such as the protection of persons and property, health, education and highways, which are common to most governments, are usually financed out of ordinary revenues or funds repayable out of ordinary revenues. Nominal fees are charged for some general community services, but for the most part there is no necessary relationship between the taxes and levies paid by a person and the use or benefit he derives from the services./1/

The government activities involved in providing such services are included in the government sector of the Input-Output Accounts (see however, Section 5.8 on construction activity).

Certain other activities of government, however, have quite different characteristics, in as much as they involved the production of economic goods and the provision of services for sale on the market at a price to the consumer which is intended to compensate wholly or largely for their costs, and, in some cases, to yield a profit. The form of organization of this type of undertaking is usually a crown corporation,

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/1/ D.B.S. cat. #61-203 [1968], p.5.

or a special agency with specific powers, subject to varying degrees of financial control by government and public accountability. Capital funds are made available by direct loans and advances from government, or by outside borrowing usually guaranteed by government. In most cases, the activities of these enterprises are of an outright commercial or industrial nature, conducted in competition with private businesses or sometimes as monopolies. In terms of motivation and behavior they are more comparable to private business corporations than to institutional or non-commercial organizations with which latter category general government data are ordinarily classified./1/

The activities of government enterprises are included in the business sector and are classified to the appropriate Input-Output Industries. Examples of federal government enterprises are: the Canadian National Railways System; Canadian Arsenals Ltd; the Export Credit Insurance Corporation; the Canadian Wheat Board; the St. Lawrence Seaway Authority; the Prince Edward Island Car Ferry service./2/

### 5.3 The Personal Sector

The personal sector includes not only households, but private non-profit institutions such as private religious and welfare organizations, private clubs, and labour unions.

The values of the outputs of commodities produced and sold by the government sector are entered as negative government expenditures; this

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/1/ Ibid., p.5.

/2/ For a listing of federal and provincial government enterprises and the relationship of their accounts to the Income and Expenditure Accounts, refer to D.B.S. cat. #61-203 [annual] and D.B.S. cat. #61-204 [annual].

has the effect of adding to the supply of these commodities. The values of the production and use of "services of government" are included in the row for Indirect Taxes and Government Services (see Sections 2.2 and 4.2). There are no comparable estimates for the commodities or for the "services of private non-profit institutions" which are produced and sold by private non-profit institutions. Sales of such goods and services to households are treated as inter-sector transfers and are therefore implicitly ignored. Thus the personal sector is treated as a direct purchaser of the items comprising the expenses of private non-profit institutions (commodities at producers' prices, commodity taxes, indirect taxes, and wages and salaries of employees).

Households are final consumers; by definition, they do not produce commodities. Where individuals and families engage in production which is to be counted as part of the domestic product, the value (cash or imputed) of the output and the related estimates of inputs (including net income) are transferred to the appropriate industry in the business sector; for this portion of their activities, the individuals and families become unincorporated business entrepreneurs. (An exception to this procedure is made for domestic servants and babysitters directly employed by households. They are not included in the business sector; rather, their wages and salaries are shown as direct payments of households.) One of the most important applications of this principle is for owner-occupants of dwellings who are treated as business entrepreneurs in the building, purchase and repair of their dwellings. In the System of National Accounts, a "space rent" is imputed for these dwellings which the individuals, as entrepreneurs, "rent" to themselves as households; the value of new construction of such buildings (including additions and major repairs) is included in business gross fixed capital formation. Thus owner-occupied dwellings are treated symmetrically with dwellings for which cash rents are paid (see also Section 5.22).

By convention, all expenditures of households are current; there are no distinctions among expenditures on current account, expenditures on gross fixed capital formation and inventory change as in the business sector. However, for analytical purposes household expenditures may be classified as "durable goods" (automobiles, refrigerators), "non-durable goods" (jam, serviettes) and "services" (haircuts, piano lessons). The reader should

note the different treatment of owner-occupied dwellings and of consumer durables such as automobiles and refrigerators.

#### 5.4 The Non-Resident Sector

A clear distinction must be made between resident (domestic) and non-resident (foreign) establishments on the one hand, and resident and non-resident individuals on the other. The output of the Canadian domestic economy is produced by Canadian domestic establishments which, in most instances, can be identified by the fact that they are located within the geographic boundaries of the country. The net domestic product at factor cost represents the incomes accruing to the primary factors of production employed by domestic establishments, regardless of the country of residence of those factors. Thus if a Detroit resident commutes to his job in Windsor, his wages earned in Windsor are part of Canadian domestic product.

The residence of an individual who is temporarily in another country is defined in terms of his intended length of stay, with the dividing line being one year. Thus if a Canadian resident takes a six-months training course with his parent company in the United States, for National Accounts purposes he continues to be a Canadian resident.

Canadian exports on a domestic basis are the sales of goods and services by Canadian domestic establishments to non-residents, that is, to foreign establishments and to non-resident individuals; included, therefore are such transactions as sales of food, accommodation and motor fuel to non-resident salesmen and tourists in Canada. Conversely, Canadian imports on a domestic basis are the sales by foreign establishments to Canadian domestic establishments and Canadian resident individuals.



### 5.5 The 1961 Input-Output Industrial Classification Systems

The listing of the 187 Input-Output Industries at the worksheet level of detail (the IOIC-W) appears in Appendix B. Each industry has a three-digit code, the code numbers ranging from 001 to 191 (codes, 005, 011 172 and 189 are blank). The listing shows the relationship of IOIC-W industries to the D.B.S. Standard Industrial Classification three-digit codes.

Appendix B also includes the lists of Input-Output Industries for each of the three aggregations published in Tables 1 to 6 and 8 to 11 (Volume 1), and Tables 13 to 16 (Volume 2):

<u>Number of Industries</u>	<u>Designation of Input- Output Industrial Classification System</u>	<u>For Tables:</u>
16	IOIC-S	1-6 (Volume 1)
65	IOIC-M	8-11 (Volume 1)
110	IOIC-L	13-16 (Volume 2)

In each of these three systems, the industry groups are numbered sequentially - for example, in IOIC-M, the industry groups are numbered from 1 to 65. Each industry group is identified in terms of the codes of IOIC-W industries which are included in that group.

### 5.6 The 1961 Input-Output Commodity Classification Systems

The list of the 644 Input-Output Commodities at the worksheet level of detail (the IOCC-W) is shown in Appendix B. The last three digits of the IOCC-W codes represent a sequential numbering of the 644 commodities, from 001 to 644. The three-digit sequential code number

is preceded by the code number of the IOIC-W industry which is the "principal producer" of the commodity. The last six commodities (IOCC-W #000-639 to 000-644) are non-competitive. Each commodity, excluding services, is also defined in terms of the five-digit coding systems of the D.B.S. Standard Commodity Classification,/1/ the D.B.S. Import Commodity Classification,/2/ and the D.B.S. Export Commodity Classification./3/ The letter "s" following one of these five-digit codes indicates that the class has been split in establishing the IOCC-W.

The lists of the Input-Output commodity groups for each of the three aggregations published in Tables 1 to 17 are also shown in Appendix B:

<u>Number of Competitive Commodities</u>	<u>Designation of Input- Output Commodity Classification System</u>	<u>For Tables:</u>
40	IOCC-S	1-7 (Volume 1)
65	IOCC-M	8-12 (Volume 1)
197	IOCC-L	13-17 (Volume 2)

In each of these three classification systems, the last three digits of the code numbers represent a sequential numbering of the commodities. For a competitive commodity, this is preceded by the code number for the industry group, at the corresponding level of aggregation, which is the principal producer of the commodity. In addition, each commodity group is identified in terms of the code numbers of the IOCC-W commodities which are included in that group. (Note that in Tables 1 to 17, the identification number for the principal producing industry is not included in the commodity group code number.)

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/1/ D.B.S. cat. # 12-502 [1959]

/2/ D.B.S. cat. # 12-521 [1961]

/3/ D.B.S. cat. # 12-524 [1964]

### 5.7 Inventories of Goods in Process

Inventories of goods in process are neither raw materials nor finished goods. Such goods could be treated as unique principal products of industries, but at the cost of creating many additional commodities. Alternatively, they could be treated as raw materials, or finished goods, or both. In the preliminary 1961 Tables, they are counted as finished goods; the value of the physical change in inventories of goods in process for an industry is assigned a commodity distribution based on the shipments of finished goods produced by the industry.

### 5.8 Dummy Commodities and Dummy Industries

While establishments report most of their commodity inputs in considerable detail, some inputs can only be reported in catch-all categories such as office supplies, process supplies, cleaning supplies, etc. Each of these categories includes many IOCC-W commodities. The information required to estimate, for each industry, the detailed commodity content of these categories of inputs is not available. These inputs were therefore handled through the device of "dummy commodities" and "dummy industries". In the following, office supplies are used as an example to explain the technique.

A dummy commodity called "office supplies" was created. The use of office supplies by industries was estimated on the basis of information from industrial surveys. A corresponding dummy "office supplies" industry was created with an output equal to the use by all industries of the commodity "office supplies". It then remained to estimate the commodity inputs of the office supplies industry. Thus the problem of estimating the commodity composition of the office supplies purchased by each industry was replaced by the considerably simpler problem of estimating the commodity inputs of the single dummy office supplies industry. This was done by routing appropriate values of paper, envelopes, paper clips, etc. to this industry.

Eight dummy commodities and an equal number of dummy industries were created. These are IOIC-W industries #183 to 191 (189 is blank). Dummy commodities were not routed to final demand. Thus the paper, envelopes, paper clips, etc., delivered to final demand do not appear under office supplies but are recorded separately. Moreover some commodities which might have been routed to industries through the intermediary of one or more of the dummy industries were in fact routed directly.

The analytical implication of the technique is that, under the assumption of industry technology, the detailed composition of a particular dummy commodity used by each industry is in proportion to the commodity and commodity tax inputs of the corresponding dummy industry.

## 5.9 Transportation

The producer's value of a product is defined as the value f.o.b. the producing establishment, that is, the value at the point where the product crosses the producing establishment's boundary. For an establishment which has its own means of transport this boundary extends to the point where the product leaves the captive transporting vehicle, and the transporting activity to that point is simply an internal operation of the establishment. The transportation industries in the Input-Output Tables include all business sector transportation establishments which operate on a for-hire basis, plus captive transportation activities in the business sector which are defined as separate establishments.

## 5.10 Construction

The force-account (own-account) new and repair construction of all business sector establishments and of sectors of final demand has been split off from these establishments and included in the Input-Output Construction Industry, which therefore encompasses all construction activity. This procedure, which contravenes the establishment definition of the S.I.C., was adopted for analytical reasons and because there is generally no detail



on the construction materials used by an industry or sector of final demand; however it is possible to estimate much of the input detail for total construction activity in the economy by identifying those commodities which are construction materials. Estimates of labour costs and of other inputs associated with force-account construction were also transferred to the Construction Industry.

The value of the new and repair construction which took place in a particular industry or sector of final demand was defined to be equal to the sum of the values of the inputs which were transferred out. Each industry or sector of final demand was assigned an input of repair construction (part of commodity IOCC-W #148-582) equal to the value of the repair construction which it was estimated to have produced. Of course, purchases of contract repair construction were also included in each industry's inputs and each final demand sector's expenditure.

#### 5.11 Scrap and Waste Materials

This commodity (IOCC-W #083-283) is treated in the preliminary 1961 Input-Output Tables as a principal product of Smelting and Refining. It consists mainly of metal scrap produced in the metal industries and of the values of scrapped motor vehicles and other machinery and equipment.

<u>Supply of IOCC-W #083-283</u> (at producers' prices)		(millions of dollars)
From Industries		58.6
Imports		33.4
Other Final Demand		<u>69.5*</u>
<u>Total</u>		<u>161.6</u>

\* entered as negative final expenditure in Tables 1, 8 and 13

Use of IOCC-W #083-283  
(at producers' prices)

	(millions of dollars)
By Industries	97.6
Exports	57.0
Increase in Inventories	<u>7.0</u>
<u>Total</u>	<u><u>161.6</u></u>

The figure of \$-69.5 million in Other Final Demand represents the receipts of persons, governments and business for scrapped motor vehicles and other machinery and equipment.

5.12 Agriculture

The Agriculture Industry (IOIC-W #001) is defined mainly on an activity basis; it includes the farm activity of farm operators and the activities of certain business establishments which perform services ancillary to agriculture. The output of Agriculture consists of:

- 1) cash income and "income in kind" derived from the operation of farms, including farm woodlots. (Income in kind refers to the imputed value of commodities produced on the farm and consumed by the farm household; this value is added to both farm output and farm net income. The definition of a farm is that used in the 1961 Census, where a farm is an agricultural holding of one acre or more, with sales of agricultural products during the past twelve months of \$50 or more. Cash receipts from the

sale of farm products and income in kind are both adjusted for changes in farm-held inventories of field crops and livestock. Included in cash receipts are Canadian Wheat Board payments applicable to the 1961 crop, irrespective of the years in which payments were actually made.)

- ii) the imputed space rental value of owner-occupied farm dwellings. (It is assumed that cash rents paid on farm dwellings are received by non-farm operators who are included in the Finance, Insurance and Real Estate Industry.)
- iii) the value of output for the business sector establishments in Services Incidental to Agriculture (S.I.C. #021).

### 5.13 Forestry

The output of the Forestry Industry (IOIC-W #002) consists of:

- i) the values of all forest products cut (logs, bolts, pulpwood, fuelwood, poles, etc.) excluding those cut on farm woodlots. (Where the forest and sawmill operations are integrated, a value is assigned to the outputs of the forestry activity, and these products appear as inputs of Sawmills; hence this portion of the Forestry Industry is defined on an activity basis excluding farm woodlots. Receipts by and payments to independent logging contractors are recorded as outputs of "work done" and inputs of "work done" in the Forestry Industry.)
- ii) the outputs of business establishments in Services Incidental to Forestry (S.I.C. #039).

#### 5.14 Base Metal Mining, Smelting and Refining

Establishments primarily engaged in the activity of smelting and refining of base metals are included in the (manufacturing) industry, Smelting and Refining (IOIC-W #083). The output of this activity is usually treated in D.B.S. Census of Manufactures statistics as a custom smelting and refining service which is provided to the mines; aside from ores and concentrates exported, the outputs of base metal mines are defined to be the smelted and/or refined metals, and their inputs include the custom smelting and refining charges. Thus the ores and concentrates which are custom smelted and refined do not appear as outputs of mining (except for changes in inventories) or as inputs of Smelting and Refining; they are simply goods in process of the mines.

For analytical reasons, it was decided to deviate from this approach in the Input-Output Tables. Mines are shown as producing ores and concentrates which then appear as inputs into Smelting and Refining (as do imported ores and concentrates) or as exports. The producers' values of smelted or refined metals appear as outputs of Smelting and Refining. As a result, the custom smelting and refining charges disappear.

Adjustments to Trade of Canada commodity classes were necessary in defining Input-Output commodity classes. Consider the export classes "nickel in ores, concentrates, and matte" and "copper in ores, concentrates, and matte". In the Input-Output Accounts, ores and concentrates are produced by mines, while the mattes are produced by Smelting and Refining; thus the values of the Trade of Canada export classes were assigned partly to ores and concentrates and partly to mattes.



#### 5.15 Railroad Rolling Stock Industry

Railway repair shops have been excluded from this industry (IOIC-W #104) in accordance with D.B.S. Census of Manufactures practice since 1961 (they are treated as part of Railway Transport)./1/

#### 5.16 Advertising Services

The value of the output of this commodity (IOCC-W #176-618), which is produced mainly by advertising agencies, consists of the value of the advertising services provided by the agencies; it does not include the cost of advertising space, advertising time, printing services, etc. which are contracted for by the agencies and included in billings to customers.

#### 5.17 Meals and Alcoholic Beverages

One of the principal products of the Food and Accommodation Industry (IOIC-W #178) is Meals (IOCC-W #178-621). Alcoholic beverages are not included in Meals. The consumer who purchases an alcoholic beverage in a restaurant, lounge, etc. is shown as purchasing the producers' value of the beverage plus the various transportation costs, trade margins and commodity taxes up to the restaurant, lounge, etc., plus the commodity, "Service margin on alcoholic beverages" (IOCC-W #178-622), plus any commodity taxes at the final point of sale.

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/1/ Refer to D.B.S. cat.#42-211 [1965].

#### 5.18 Gratuities

Gratuities for meals, drinks, porter service, taxi service, etc. are treated as additions to the values of outputs at producers' prices of the related goods and services provided, and are included in wages and salaries or net income of unincorporated business in the relevant industries.

#### 5.19 Interest and Dividends

Dividends paid to shareholders represent a distribution to owners of corporate surplus (surplus is measured, in the Input-Output Accounts, before payments of dividends which are not identified separately). The receipt of dividends does not represent a commodity output of the receiving establishment and therefore is not taken into account in measuring the establishment's output or profit on productive activity. Interest paid by business sector establishments and interest receipts in the economy (adjusted for imputed service charges - see below) are treated in the same way as dividends.

Only interest paid by industries is included in Gross Domestic Product; interest on the government and consumer debt is considered to be non-productive and is excluded from GDP (and from personal and government expenditure on goods and services). GDP may originate in the provision of advisory, administrative and other services in the course of arranging and managing business, consumer, government and non-resident borrowing and lending. This

leads to the problem of measuring surplus in financial institutions, such as the chartered banks, where much of the revenue is in the form of interest received from borrowers. The average rate of interest on deposits is usually lower than that on loans; because interest received is not included in the output of the recipient, the application of the concepts described above would result in negative surplus or even negative GDP for such financial institutions. It is clear that some adjustment is necessary if meaningful levels of gross output, surplus, and GDP by industry are to result.

The solution to the problem adopted in the Canadian System of National Accounts involves the imputation of an output of services provided to customers. For the chartered banks, there are two parts to the imputation:

- i) it is assumed that the cash interest paid by banks to its depositors is lower than the pure interest involved, in lieu of making explicit banking service charges to depositors; the estimate for interest paid by the banks and received by depositors is raised, the offset being an imputed service output of the banks which is "purchased" by their depositors;
- ii) it is assumed that the cash interest received by the banks from their borrowers is higher than the pure interest involved, in lieu of making explicit banking service charges to borrowers; the estimate for interest received by the banks and paid by borrowers is reduced, the offset being an imputed service output of the banks which is "purchased" by their borrowers.

In comparison with an initial GDP calculation made before these imputations, the adjustments increase the GDP of the banks by the amount of the imputed service charges. This increase represents:

- i) an increase in the total GDP of the economy to the extent that the imputed service charges are allocated to persons, government and non-residents;
- ii) a shift in GDP from other industries to the banks to the extent that the imputed service charges are allocated to those industries.

#### 5.20 Commissions on Stock, Bond and Commodity Trading

For income tax purposes, non-financial companies usually capitalize stock and bond commissions. In the conceptual framework of the System of National Accounts, such commissions are current expenses, and the companies' book profits are overstated; therefore a capital valuation adjustment is made to profits. Stock, bond and commodity trading commissions are included in IOCC-W #168-608.

#### 5.21 Insurance

The commodity code IOCC-W #168-609 refers to insurance service which has three components - casualty insurance service, life insurance service, and commissions of insurance agencies.



The value of the output of casualty insurance service (for fire, theft, accident, etc.) is defined to be equal to the insurance premiums received less insurance claims paid on such policies during the year, under the assumption that the insurance premiums represent payments for casualty insurance service plus risk, and that the value of claims paid represents the measure of the risk element.

In business accounting records, insurance premiums paid are treated as part of operating expenses; claims received are usually entered as adjustments to capital account. Therefore, in order to maintain the equality of final expenditures and primary inputs in the Input-Output Accounts, it is necessary to make a downward adjustment to business gross fixed capital formation or an upward adjustment to primary inputs. The latter approach has been adopted; the total input of casualty insurance service for all industries is defined as total premiums paid by business less total claims received by business. Claims received are distributed over industries according to the distribution of premiums paid. The distribution of claims is then deducted from premiums paid (the difference being cost of casualty insurance service) and added to depreciation which is part of surplus. Expenditures on casualty insurance service by persons, government, and non-residents are defined as premiums paid less claims received.

Premiums paid on life insurance policies often include a large element of saving. The value of output of life insurance service is measured in terms of the estimated expenses (of establishments providing life insurance service) which relate to life insurance activity proper. No expenditures on life insurance service have been estimated for the business sector.

The funds which represent the savings portion of life insurance policies are considered to be held in the personal sector by a private "association" of the individual policy holders; interest and dividends earned through investment of those funds are therefore deemed to be interest and dividends received by persons.

The output of the insurance activity of insurance agencies is defined to be the value of the commissions which they received from the insurance underwriters; this part of commodity IOCC-W #168-609 is therefore a cost of establishments engaged in insurance underwriting.

## 5.22 Real Estate Rentals and Commissions

Cash rents for land, buildings, and structures are part of the commodity, "Rent of land, buildings, and other durable structures" (IOCC-W #168-620). Receipts of such rents are counted as outputs of the industries owning the land, buildings and structures; thus "net rent" (rent after deduction of operating expenses and depreciation) is part of the net income of unincorporated business or of the surplus of the industries which own the rented assets.

An individual who receives rent for land, buildings, etc. owned by him is considered for this purpose only to be part of the real estate industry (which in turn is part of the Finance, Insurance and Real Estate Industry - IOIC-W #168). The imputed rental output and the associated expenses and net income of the owner-occupant of a non-farm dwelling /1/ are also included in the real estate industry (see Section 5.3). The treatment adopted for owner-

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/1/ Owner-used garages are treated similarly. The expenditure of persons on dwelling rentals (whether cash or imputed) is for the residential-use portion only, that is, it excludes the business-use portion. Further, only the "space rent" is included. In the case of a cash rent payment, that portion which is estimated to represent the owners' cost of providing heat, light, water, etc. is excluded, the householder being treated as the direct purchaser of the fuel, electricity and water; similarly, where the owner provides facilities such as a refrigerator and stove, the estimated portion of the cash rent for this service is treated as a facility rental expenditure of the householder. For the owner-occupant, such adjustments are not necessary because the imputation is made only for the residential space rent.

occupied dwellings makes the level of business gross fixed capital formation and of GDP relatively invariant to the extent to which dwellings are owner-occupied rather than rented.

For the 1961 Input-Output Tables, the above discussion must be qualified by the fact that the outputs and associated inputs relating to new and repair construction activity are included in the Construction Industry.

Current period charges by governments for the rights to exploit mineral resources (mainly oil and natural gas) are treated as rental outputs of the governments, whether they are classified as "rents" or as "royalties" in the government accounting records. This treatment will be reviewed in the preparation of the revised 1961 Input-Output Tables.

Real estate commissions for transferring land and buildings from one owner to another are included in IOCC-W #168-608; the commissions are treated as additions to business gross fixed capital formation of the purchasing industry.

### 5.23 Royalties

Royalties received on patents, copyrights, trademarks, franchises and processes (IOCC-W #168-611) are treated as commodity outputs of the receiving industries and commodity inputs of the paying industries.

### 5.24 Finance, Insurance and Real Estate Industry

The conceptual treatment of most of the activities engaged in by establishments classified to the industry (IOIC-W #178) have been discussed in

previous Sections. The main types of operations and activities included in the industry are:

- Chartered Banks
- Bank of Canada
- Credit Unions
- Trust and Mortgage Companies
- Loan Companies
- Stock, Bond and Commodity Dealers
- Investment and Holding Companies
- Real Estate Companies and Agencies
- Non-Farm Owner Occupied Dwellings
- Insurance Companies
- Insurance Agencies

Included in the above are government insurance enterprises and other government financial enterprises.

In addition to the imputed service charges for the Chartered Banks, imputations are made for service outputs of Trust and Mortgage Companies, Loan Companies, Credit Unions and the Bank of Canada. These imputed service charges, as well as certain cash service charges, are included in IOCC-W #168-608.



## A P P E N D I X    A

### MATHEMATICAL TREATMENT OF ANALYTICAL USES

The range of possibilities for developing models based on rectangular Input-Output Tables is not fully covered in the economic literature. This is partly because rectangular Input-Output Tables open the way for analytical refinements whose potential is only beginning to be explored. But even those models which have already been developed have not all appeared in the literature. For this reason the present Appendix contains a review of some models based on rectangular tables along with references to published or unpublished material which describes other models.

#### A.1 The Basic Model

Diagram 12 contains an abstract of the accounting framework of the 1961 Input-Output Tables. The symbols used are those proposed by the United Nations Statistical Commission in its current revision of the System of National Accounts. /1/ In this simplified framework final demand less imports for competitive commodities is shown in a single columns and designated by the symbol  $e$ . Similarly the primary inputs of industries are included in a single row and designated by the symbol  $y'$ . In the course of the discussion

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/1/ See UNITED NATIONS [1968].

it will become necessary to break out particular elements of final demand and primary inputs but for the moment it is convenient to show them in aggregate./1/

D I A G R A M    12

	Competitive Commodities	Industries	Final Demand Less Imports	Total
Competitive Commodities		U	e	q
Industries	V			g
Primary Inputs		y'	y <sub>e</sub>	
Total	q'	g'		

Notation

Capital letters are used for matrices, lower case letters for vectors and scalars. Column vectors are unprimed; row vectors are primed.

U is a matrix of the values of intermediate inputs.

V is a matrix of the values of outputs.

q is a vector of the values of total commodity outputs.

g is a vector of the values of total industry outputs.

e is a vector of the values of final demand less imports for competitive commodities.

y' is a vector of the values of the primary inputs of industries.

y<sub>e</sub> is a scalar representing the value of the primary inputs associated with final demand less imports.

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/1/ The complete list and definition of symbols appears in Section A.12.

The specification of models based on the information contained in this framework involves two sets of assumptions. The first has the function of allocating the production of commodities /1/ among industries. The second establishes the production functions of industries which in turn determine the requirements of industries for commodity inputs. In combination with the accounting balance between total demand less imports and domestic production, these assumptions establish Input-Output models in which outputs are determined as a function of final demand less imports.

The simplest assumption concerning the allocation of commodity production among industries is that industries will preserve their observed share of the market for each commodity irrespective of the levels of commodity production. The mathematical expression of this assumption is the following matrix equation:

$$(1) \quad g = Dq$$

In this equation vector  $g$  represents the values of industry outputs and vector  $q$  the values of commodity outputs. Matrix  $D$  is a matrix of coefficients which is calculated by dividing each element in a column of the output matrix  $V$  of Diagram 12 by the corresponding total commodity output. It will be referred to as the Market Share Matrix.

The simplest way of defining the production functions of industries is to suppose that the values of the inputs of each industry are fixed proportions of the value of the total output of the industry and are thus independent of the composition of this output. This assumption, which has always been a basic assumption of Input-Output analysis, is now being referred to in the literature as the "industry technology" assumption. The mathematical expression of this assumption is the following matrix equation:

$$(2) \quad U_i = Bg$$

In this equation matrix  $U$  is the matrix of commodity inputs of Diagram 12. Vector  $i$  is a column vector, equal in dimension to the number of

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/1/ The term "commodities" unless otherwise qualified, refers to competitive commodities only.

industries, whose elements are all equal to 1. The matrix product  $U_i$ , therefore represents a vector containing the sum of the intermediate inputs of all industries classified by commodity. Matrix  $B$  is a matrix of coefficients which is obtained by dividing each element in a column of matrix  $U$  by the corresponding total industry output. Matrix  $B$  will be referred to as the Industry Technology Matrix. Vector  $g$  represents, as before, industry outputs. The equation as a whole states that total intermediate inputs classified by commodity can be calculated as the product of the Industry Technology Matrix and the vector of industry outputs.

The mathematical expression of the accounting balance between commodity production and intermediate plus final demand less imports is as follows:

$$(3) \quad q = Bg + e$$

All the terms of this expression have already been defined. Substitution from eq. (1) into eq. (3) yields the following Input-Output models:

$$(4) \quad q = [I - BD]^{-1}e$$

$$(5) \quad g = [I - DB]^{-1}De$$

These two expressions define linear transformations of final demand less imports into commodity outputs, in the case of eq. (4), and into industry outputs in the case of eq. (5).

It should be noted that, eq. (4) is redundant; eq. (5) can be used to solve for industry outputs and these solutions can be substituted into eq. (3) to give solutions for commodity outputs. The significance of using eqs. (3) and (5) instead of eq. (4) to solve for commodity outputs is that the inverse which must be calculated for eq. (4) is equal in dimension to the number of commodities whereas the inverse involved in eq. (5) is equal in dimension only to the number of industries. /1/ Thus the commodity classification can be arbitrarily detailed without requiring the inversion of an arbitrarily large matrix in order to solve for commodity outputs.

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/1/ In fact matrix  $[I - BD]^{-1}$  is identically equal to matrix  $[I + B[1 - DB]^{-1}D]$ .



## A.2 Patterns of Final Expenditure

For the purposes discussed in Section 3.2 it is convenient to know the effect of a dollar of final demand spent not on a single commodity, but on a group of commodities according to a given pattern. For example, if instead of a single vector of final demand there is a matrix of categories of final demand corresponding to submatrices 2 through 6 of Diagram 2, Chapter 2, then patterns of expenditure can be calculated as coefficients derived by dividing the elements of each column of the matrix of final demand by the total for the column. /1/ The mathematical expression of the foregoing is as follows:

$$(6) \quad G = [I - DB]^{-1}DE$$

where E is a matrix of coefficients representing patterns of final expenditure and G is a matrix any column of which represents the direct and indirect effects on industry outputs of spending one dollar on a particular category of final expenditure in the base-year pattern, /2/ without allowing for import leakages. /3/

## A.3 Primary Inputs

The impact of final expenditures on industry outputs is interesting in itself, but often it represents an intermediate stage in the calculation of the impact of final expenditures on labour income, other incomes and indirect taxes. The assumption here is that the incomes and other primary inputs of an industry will be proportional to the value of the industry's output. These proportionalities are expressed by coefficients obtained by dividing the primary inputs of each industry by the industry's output. If these coefficients

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/1/ The total for each column includes the primary inputs associated with each category of final demand, i.e. a distribution of the scalar  $y_e$  of diagram 12 over the categories of final demand.

/2/ Of course the coefficients of matrix E could be modified to allow for observed, hypothetical or projected changes in patterns of expenditure.

/3/ See Section 3.2.

are incorporated in a matrix  $Y$  whose rows represent categories of primary inputs while the columns represent industries, then the direct and indirect effects on the primary inputs of all industries of one dollar of final demand spent on each commodity /1/ can be expressed as:

$$(7) \quad H = Y[I - DB]^{-1}D$$

Moreover, the impact on primary inputs of a dollar spent on each category of final expenditure /2/ can be expressed as:

$$(8) \quad Y[I - DB]^{-1}DE = HE = YG$$

It should be noted that matrix  $Y$  can contain coefficients which represent not only the categories of primary inputs usually associated with Input-Output Tables but also coefficients for any variables which are likely to be approximately proportional to industry outputs. Two important applications of this proposition relate to employment effects. If information is available on the occupational distribution of the employees of each industry, then by introducing occupational mix coefficients for each industry in matrix  $Y$  the implications of different patterns of final expenditure for the occupational mix of the labour force can be estimated. This information might then be used to estimate educational and/or retraining requirements. When these applications take the form of projections of final expenditures for some future year, forecasts of labour requirements per unit of output are often used to refine the resulting estimates of manpower requirements. A second application in the field of employment involves the assumption that the regional distribution of employment for each industry is relatively stable and independent of the level of the industry's output. In this case the coefficients incorporated in matrix  $Y$  represent the regional distribution of employment for each industry. The impact of given deliveries to final demand on the regional distribution of employment can thus be investigated. Such applications of Input-Output analysis are not confined to the field of employment. Input-Output Tables have been used to project water resource requirements, pollution effects, land use requirements and other variables which can be related to levels of industry outputs.

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/1/, /2/ No allowance is made for import leakages in these expressions - see Section 3.3.

#### A.4 Competing Imports

In the models described so far, competing imports are treated as exogenous variables. Non-competing imports are, of course, determined by the levels of industry outputs when they are used by industries, or are pre-specified as part of final demand when they are used for final purposes. Many applications of Input-Output analysis involve investigation of the impact on both competing and non-competing imports of given deliveries to final demand. These applications require that the levels of competing imports be determined endogenously.

The simplest mechanism for determining the levels of competing imports involves the assumption that competing imports will constitute a stable proportion of the total supply of each commodity. This is simply an extension of the market share assumption to competing imports. In mathematical terms this assumption is expressed as:

$$(9) \quad m = \hat{\mu}(q + m)$$

where vector  $m$  represents competing imports and  $\hat{\mu}$  is a diagonal matrix of coefficients whose elements are calculated as the ratios of competing imports to total supply for each commodity.

If eq. (9) is combined with eqs. (1) and (3), the following Input-Output model is obtained:

$$(10) \quad g = [I - D^* B]^{-1} D^* e$$

where:  $D^* = D(I - \hat{\mu})$

$: e = e + m$

In this expression matrix  $D(I - \hat{\mu})$  is a new market share matrix for which the market share coefficients of industries are calculated as a proportion of the total supply of each commodity rather than as a proportion of the domestic production of each commodity. The sum of the coefficients in any column of matrix  $D(I - \hat{\mu})$  will not be equal to one, as is the case for matrix  $D$ , but will be equal to the proportion that domestic production



represents of the total supply of each commodity. Import leakages are thus built into the market share matrix. Alternatively, matrix  $(I - \hat{\mu})$  can be considered to modify matrix B and the vector of final demand  $e^*$ . On this interpretation, the elements in each row of matrix B and the corresponding element of vector  $e^*$  are scaled down to represent the domestic content of each input coefficient and each element of final expenditure. Intermediate and final demands for domestic commodities are then apportioned to industries through the market share matrix D.

In principle it is possible to assign a different import content to each element of demand by scaling down each column of matrix B and each category of final expenditure with a different set of domestic content coefficients. However, the information required for this purpose is only available for exports. Since the import content of exports is likely to be smaller than the import content of other elements of demand, it is important to introduce this distinction.

Coefficients representing the import content of exports are calculated from base-year exports and re-exports:

$$(11) \quad x_m = \hat{\mu}_1 x$$

where  $x_m$  is a column vector of re-exports,  $\hat{\mu}_1$  is a diagonal matrix of import content coefficients and  $x$  is a column vector of exports.

The import content of any demand other than exports is calculated as follows:

$$(12) \quad m - x_m = \hat{\mu}_0 (m - x + q)$$

The accounting balance equation, eq. (3), can now be rewritten as:

$$(13) \quad q = Bg + e^o + x - m$$

where  $e^o = e - x + m$

Substitution into eq. (13) from eqs. (1), (11) and (12) gives:

$$(14) \quad g = [I - D(I - \hat{\mu}_0)B]^{-1} D [(I - \hat{\mu}_0)e^o + (I - \hat{\mu}_1)x]$$



Eq. (14) is comparable to eq. (10) except that exports are assigned a different import content from any other demand. Given the solutions for industry outputs defined by eq. (14), it is also possible to solve for commodity outputs and competing imports:

$$(15) \quad q = (I - \hat{\mu}_0) (Bg + e^0) + (I - \hat{\mu}_1)x$$

$$(16) \quad m = \hat{\mu}_0 (Bg + e^0) + \hat{\mu}_1 x$$

The expression developed in Section A.2 for estimating the impact on industry outputs of a dollar spent according to the base-year pattern of a particular category of final expenditure can be reproduced with matrix  $[I - D(I - \hat{\mu}_0)B]^{-1}D$  rather than matrix  $(I - DB)^{-1}D$ . In this case, the elements of each column of the matrix of expenditure patterns, E, are scaled down to allow for direct import leakages before they are premultiplied by matrix  $(I - D(I - \hat{\mu}_0)B)^{-1}D$ . If exports are included in matrix E the elements in the column for exports are scaled down by the proportions contained in matrix  $(I - \hat{\mu}_1)$  rather than those contained in matrix  $(I - \hat{\mu}_0)$ .

The expressions developed in Section A.3 for estimating the primary input requirements of final expenditures can also be reproduced in these models by premultiplying the matrix of direct and indirect effect on industry outputs by the matrix Y of primary input coefficients:

$$(17) \quad K = Y[I - D(I - \hat{\mu}_0)B]^{-1}D$$

The domestic content of final expenditures must be calculated before these expenditures are applied to matrix K.

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The parameters of the preceding models are either being published or will be published in conjunction with the 1961 Input-Output Accounts. /1/

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/1/ The contents of the tables being published in this report are described in Chapter 4.

The models described in subsequent sections represent extensions of these models, some of which can be developed on the basis of the 1961 Input-Output Accounts while others require additional data.

### A.5 Business Projections

The model represented by eq. (14) can be simplified considerably for use in projections of the level of output of a particular industry. Suppose that the rows of matrix  $[I - D(I - \hat{\mu}_0)B]^{-1}D$  have been rearranged so that the industry in question is the first industry. With the use of base-year data, the output of this industry can be calculated as the product of the first row of matrix  $[I - D(I - \hat{\mu}_0)B]^{-1}D$  and of vector  $[(I - \hat{\mu}_0)e^0 + (I - \hat{\mu}_1)x]$ . This product will be the sum of the first element in the row of the matrix multiplied by the first element in the column vector plus the second element in the row of the matrix multiplied by the second element in the vector, and so forth. The products of each element in the row of the matrix multiplied by each element in the vector can be rearranged in descending order of magnitude. Each of these products represents the direct and indirect contribution to the industry's output of each commodity in final demand. For most industries a few elements in final demand will account for eighty or ninety percent of the industry's output. For these industries it will be sufficient to forecast the demand for a few commodities in order to project industry output. The following schematic diagram indicates what is involved:

$$\begin{array}{|c|c|} \hline R_{11} & R_{12} \\ \hline R_{21} & R_{22} \\ \hline \end{array} \quad \times \quad \begin{array}{|c|} \hline e_1 \\ \hline e_2 \\ \hline \end{array} = \begin{array}{|c|} \hline g_1 \\ \hline g_2 \\ \hline \end{array}$$

Matrix  $[I - D[I - \hat{\mu}_0]B^{-1}D]$  has been relabelled  $R$  and partitioned into four submatrices. Submatrices  $R_{11}$  and  $R_{12}$  refer to the first industry. Submatrix  $R_{11}$  refers to those commodities the final demand for which accounts directly and indirectly for eighty or ninety percent of the first industry's output. Vector  $[(I - \hat{\mu}_0)e^0 + (I - \hat{\mu}_1)x]$  -- relabelled  $e^\#$  -- is also partitioned so that the commodities in question constitute the part of the vector  $e^\#$  which is labelled  $e_1^\#$ . The vector of industry outputs has also been partitioned into two parts, the first of which contains the output of the first industry,  $g_1$ , and the other part the outputs of all the other industries. The determination of the output of the first industry involves the following matrices and vectors: /1/

$$(18) \quad g_1 = R_{11}e_1^\# + R_{12}e_2^\#$$

On the right hand side of this equation only the first term is important; the other term  $R_{12}e_2^\#$  covers only ten to twenty percent of the output of the industry. Thus if the elements of vector  $e_1^\#$  are projected individually, while the product  $R_{12}e_2^\#$  is increased on the basis of some projection of the level of economic activity, eq. (18) will provide a projection of the industry's output which takes account of the technological interdependence of the system. Industries which produce intermediate goods can concentrate on projections of the demand for the final goods which determine the bulk of the demand for their own products.

#### A.6 Interindustry Flow Models

The Canadian Interindustry Flow Table for the year 1949 sets out the flows of goods and services from one industry to another without identifying

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/1/ This model is an extension to rectangular Input-Output systems of a model developed by Professor Leontief; see LEONTIEF [1967].

their commodity content. The model developed from this table involves the assumption that the flows from supplying industries are proportional to the levels of output of the recipient industries. Although this assumption appears to be unrelated to the industry technology and market share assumptions adopted for the 1961 Tables, it is in fact equivalent to a combination of the industry technology assumption and a modified version of the market share assumption.

The construction of interindustry flow tables presupposes identification of the specific sources of supply (each domestic industry and imports) of the commodity inputs of each industry and of the commodities purchased by each sector of final demand. This information can be expressed in the form of market share matrices specific to each purchasing industry and to each sector of final demand. The interindustry flow model can therefore be formulated in the following way:

$$(19) \quad g = [I - \sum_j D_j^* B_j]^{-1} \sum_k D_k^* e_k^*$$

$$\text{where: } D_j^* = D_j (I - \hat{u}_j)$$

$$: D_k^* = D_k (I - \hat{u}_k)$$

In this expression matrix  $D_j$  is a market share matrix specific to the  $j$ th industry. The elements of any column of this matrix represent, for a given commodity, the market shares of the various industries which supplied that commodity to the  $j$ th industry in the base-year. Similarly matrix  $D_k$  is a market share matrix specific to the  $k$ th category of final demand. Matrix  $B_j$  is of the same dimensions as matrix  $B$  and contains the elements of the  $j$ th column of matrix  $B$ , all its other elements being equal to zero. Matrices  $\hat{u}_j$  and  $\hat{u}_k$  are diagonal matrices which contain, for each purchasing industry and for each category of final demand, the proportion that competitive imports constitute of the use of each commodity.  $e_k^*$  is a column vector containing the expenditures on commodities of the  $k$ th category of final demand.

It can be seen from eq. (19) that interindustry flow models are similar to the models discussed so far, except that instead of assuming that industries and imports preserve their overall share of the market for each



commodity, interindustry flow models assume that industries and imports preserve their share of the market for each commodity sold to each industry and each category of final demand.

Strictly speaking, in order to use an interindustry flow model, it is necessary to have all the market share matrices corresponding to each category of final demand, i.e. matrices  $D_k^*$ , in order to transform final demands for commodities into final demands for the products of each industry. These market share matrices were not published for the 1949 Interindustry Flow Tables. The 1949 published tables include the following:

- i) the dollar value flow table (Table 1 of D.B.S. cat. #13-513 [1960]), the intermediate portion of which corresponds to matrix  $\sum_j D_j^* U_j$ . The portion of Table 1 showing final demands for the outputs of industries classified by five categories of final demand corresponds to the vectors  $D_k^* e_k^*$ , where  $k = 1, 2, 3, 4, 5$ .
- ii) the matrices of direct intermediate input coefficients (corresponding to matrix  $\sum_j D_j^* B_j$ ) and primary input coefficients (corresponding to matrix  $Y$ ). The latter includes competitive plus non-competitive imports as one row. (Table 2 of D.B.S. cat. #13-513 [1960]).
- iii) the inverse matrix corresponding to  $[I - \sum_j D_j^* B_j]^{-1}$ , and a matrix showing the primary input content of final expenditure, corresponding to  $Y[I - \sum_j D_j^* B_j]^{-1}$  (Table 3 of D.B.S. cat. #13-513 [1960]).

The matrices in (ii) and (iii) above do not correspond precisely to Tables 2 and 3, respectively, of D.B.S. cat. #13-513 [1960] because in these Tables, industry outputs and intermediate inputs were redefined to exclude intra-industry transactions. Intra-industry transactions were, however, included in the value figures of Table 1. Since commodity detail was not maintained throughout the worksheets of the 1949 Tables, the market share matrices  $D_j^*$  and  $D_k^*$  are not available. Thus in using these Tables for analysis, it is necessary to specify final demands for the combined products of each industry rather than for individual commodities.

The assumption in interindustry flow models of stable patterns of supply from each supplier to each customer is questionable. Many of the base-year flows from which these patterns must be derived represent configurations of market factors which need not have any stability. It is preferable to suppose that, in a given commodity market, decreases in the market shares of an industry in supplying some customers will probably be offset by increases for other customers. This argues for the stability of the overall market share matrix. Moreover, in most cases, information on particular patterns of supply is lacking. Nevertheless, there are certain specific patterns of supply which are likely to be stable and which are known. These can be incorporated in Input-Output models through the device of the specific market share matrices.

#### A.7 Technological Constraints on Supply

Most Input-Output models involve some variant of the market share assumption. This is true, for example, of the models which have been used in conjunction with U.S. Input-Output Accounts, i.e., of the so-called transfer models. /1/

The market share assumption, in one form or another, is needed to link demand with productive activity: as long as the same commodities are produced by several industries some marketing transformation is required. The market share assumption is inappropriate, however, for some of the commodities produced by some industries. In particular, when there are technological constraints on the production of an industry, the industry is unlikely to preserve its share in each of its commodity markets. This has

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/1/ These models can be easily derived from commodity-by-industry tables. See GIGANTES and PITTS [1965].

always been recognized in Input-Output analysis and special provisions have been made for the treatment of technologically constrained outputs such as those of by-products and joint products.

The manner in which the outputs of such products are determined is more flexible in Input-Output models based on commodity-by-industry accounts than in traditional models. The standard option of making the outputs of by-products proportional to the outputs of the industries which produce them is available. In addition, it is possible to specify that certain products of an industry will be produced in fixed proportions, the demand for each product being determined by the demand for all the products. This device can be used for joint products and for the by-products of individual commodities. Moreover, partial technological relationships can be defined such that the output of a given product is partially tied to the total output of the industry which produces it or to the outputs of selected commodities produced by the industry and partially determined by market share considerations.

The introduction of such technological constraints on supply can lead to situations of oversupply or shortage. The models designed to accommodate such situations are complicated and probably should be used only for certain kinds of analysis. /1/

#### A.8 Input Structures

All of the models discussed to this point employ the assumption that the input structures of industries are independent of the composition of their outputs. This is the industry technology assumption which is represented by the matrix of input coefficients  $B$ . In fact, it is unlikely that industries will have stable input structures if the proportions in which they produce various commodities change.

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/1/ See GIGANTES [1969].

Stone has developed a model in which the input structures of commodities, rather than those of industries, are assumed to be stable. /1/ The model involves the assumption that the input structure of each commodity is unique, i.e., that a commodity has the same input structure in each of the industries which produce it.

In reality the input structures of commodities are likely to be affected by the technological environment of the industries which produce them: the input structures of a commodity which is produced by different industries will be similar but not identical. The similarity will be greater for inputs which are directly embodied in the commodity than for inputs which represent more or less joint costs of production of the commodity in question with the other commodities produced by each industry.

The best solution to this problem is, of course, to obtain information on commodity input structures from the industries which produce them. However, even if firms did record the inputs associated with the production of each commodity -- and there is evidence that many of them don't -- the problem of joint costs would still remain. In any case, the huge volume of information to be collected and processed makes this a remote possibility at present.

In the absence of actual information, two approaches to the problem of calculating commodity input structures specific to each industry are being developed at D.B.S. Both are at the experimental stage. One represents an extension of Stone's methods for calculating commodity input structures whereby the assumption that commodity input structures are unique is relaxed. /2/ The second involves the use of data on the commodity inputs and outputs of individual establishments in conjunction with multivariate estimation techniques to determine commodity input structures for each industry. This project is being carried out in co-operation with Professor F.T. Denton of McMaster University. The manner in which commodity input structures specific to each industry can be incorporated in Input-Output models is described in GIGANTES [1969].

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/1/ See, for example, STONE (ed.) [1963].

/2/ See GIGANTES [1969].



### A.9 Modifiable Coefficients

One of the serious criticisms of Input-Output analysis concerns the proportionality assumptions associated with Input-Output models. These are the hypotheses that input structures and market shares are independent of the levels of commodity and industry outputs.

Professor Matuszewski of Laval University has developed a model in which these proportionality assumptions are relaxed. The model is based on Input-Output Tables for the Province of Quebec and is now operational. It is not the intention here to describe this model but only to enumerate some of its basic features. /1/

The model is a modification of the model represented by eq. (10). The well known properties of Leontief matrices permit expansion of the inverse  $[I - D^*B]^{-1}$  of eq. (10) into a convergent infinite series. Thus:

$$(20) \quad g = [I - D^*B]^{-1} D^* e^* = [I + D^*B + (D^*B)^2 + (D^*B)^3 + \dots] D^* e^*$$

Industry outputs can be calculated iteratively by taking the sum of matrix  $I$  plus successive powers of matrix  $D^*B$ , and post-multiplying by vector  $D^* e^*$ . In general, the sum of the first few terms in the expansion will provide an adequate approximation of the whole series.

Professor Matuszewski's modification involves the option of changing the coefficients of matrices  $D^*$  and  $B$  at each iteration. The model thus becomes:

$$(21) \quad g = [I + D_1^* B_1 + D_2^* B_2 D_1^* B_1 + D_3^* B_3 D_2^* B_2 D_1^* B_1 + \dots] D_0^* e^*$$

Modifications in the coefficients of matrices  $B$  and  $D^*$  are defined as functions of the cumulative levels of certain variables in the previous or present iteration. These are step functions which trigger the introduction of precalculated columns of coefficients to replace existing columns as soon as the threshold level of some variable has been reached. In particular, any column of matrix  $B$  can be replaced by a new column as soon as the output

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/1/ For a description of the model, see MATUSZEWSKI et al. [1967].

of the industry in question reaches a certain level. Industry input structures thus become subject to scale effects designed to accommodate the inherent non-proportionality of certain inputs. A second type of modification of matrix B involves changes in columns of B as a function of the cumulative levels of certain primary inputs which are also calculated at each iteration. The object in this case is to allow for substitution effects when some primary factors are scarce. The model also allows for the recalculation at each iteration of industry input structures as linear combinations of commodity input structures. These linear combinations are determined by the commodity composition of increments in the output of each industry at each iteration.

The columns of matrix  $D^*$  are modified in the same manner to allow for scale and capacity effects. Threshold levels of industry outputs which indicate that an industry is approaching a capacity ceiling induce an decrease in the industry's market shares in the present and in subsequent iterations. Levels of commodity outputs which are calculated at each iteration also trigger changes in market shares. These are primarily designed to allow for import substitution when the capacity of the domestic economy to produce a given commodity is being strained. Moreover, the model allows for modifications in market share coefficients depending on the industry or sector of final demand which is purchasing a commodity. This feature is equivalent to the specific market share matrices associated with inter-industry flow models.

The options of Professor Matuszewski's model represent an important advance in Input-Output methodology. In effect, the production and marketing functions of the system are defined as linear approximations of non-linear functions. The non-proportionalities of the model require that the analysis be carried out incrementally given an initial state of the model and that the parameters of the model be derived from several observations. This raises a question about the volume and source of the information that must be fed into the model. The answer to this question lies in the ability of the model to absorb partial information. Some of the relationships of the model can be non-linear while other relationships remain proportional. The selective estimation of functions describing the changes in some important coefficients gives greater realism to the model without multiplying many times over the

amount of information that must be stored and manipulated. Moreover the model has the capacity to learn in the sense that successive Input-Output Accounts become observations which the model uses to define its functions.

#### A.10 Revenue-Expenditure Models

The models described to this point belong to the class of "open" Input-Output models; the elements of final expenditure are given exogenously and the resulting levels of industry and commodity outputs are calculated.

In reality, this productive activity also generates incomes which in turn largely determine some categories of final expenditure. In many applications of Input-Output analysis it has been desirable to extend the models so that these expenditures are determined endogenously by the incomes generated within the models. This is referred to as closing or partially closing the models. Such extensions are also possible with rectangular Input-Output Tables.

The most common extension is to suppose that consumer expenditures are determined by the wages and salaries and other incomes generated within each industry. This can be done in a number of ways. The one described here takes advantage of the structure of the 1961 Input-Output Tables.

Some of the information required for this purpose is being compiled for the 1961 Input-Output Tables. This is the information relating to categories of consumer expenditure classified by commodity which has already been described in Section A.2. It consists of the portion of matrix  $E$  which contains patterns of consumer expenditure. This submatrix will be referred to as  $E_c$ .

If the totals for consumer expenditures classified by category of expenditure are represented by a vector  $f_c$ , then total consumer expenditures classified by commodity can be calculated as the matrix product  $E_c f_c$ . This expression can be substituted in eq. (13) which thus becomes:



$$(22) \quad q = Bg + e^{\dagger} + E_c f_c + x - m$$

$$\text{where: } e^{\dagger} = e^{\circ} - E_c f_c$$

The dependent variables in this equation are  $q$ ,  $g$ ,  $m$ , and  $f_c$  and, as before, the following relationships are defined:

$$(1) \quad g = Dq$$

$$(16) \quad m = \hat{\mu}_0 (Bg + e^{\circ}) + \hat{\mu}_1 x$$

What remains is to define a relationship for  $f_c$  in order to derive solutions for  $q$ ,  $g$ ,  $m$ , and  $f_c$  as functions of  $e^{\dagger}$  and  $x$ . This relationship will take the form of a transformation of the incomes generated by productive activity into consumption by category of consumer expenditure.

The information required to define this transformation is not available. It would have to be the subject of special studies. It is not the intention here to describe the nature of these studies, but rather to give a rough idea of what information would be involved and of the way in which it can conveniently be introduced in rectangular models.

There are two approaches to the estimation of the consumption associated with particular levels of income. One involves establishing income elasticities of consumption through time series analysis. A study along these lines has recently been carried out by the Economic Council of Canada. /1/ The second involves the use of cross-sectional data on family expenditures classified by level of income. /2/

Of the two, the cross-sectional approach seems the more promising; the consumption generated by the activity of an industry can, in principle, be related to the particular characteristics of the income recipients of the industry. This is not possible with the aggregative macro-economic approach.

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/1/ See SCHWEITZER [1967].

/2/ D.B.S. is carrying out family expenditure surveys which, historically, were designed to provide weights for the Consumer Price Index; they were geared to the expenditure of middle income urban families. D.B.S. is now expanding these surveys so that all levels of income, including those of rural families, are represented.



In practice, it is feasible to identify the consumption characteristics of the wage and salary earners and of the recipients of the net incomes of unincorporated businesses of an industry. /1/ It is much more difficult to associate the recipients of investment income and their consumption with particular industries because investment income may flow from one industry to another before it reaches final recipients. Moreover, even for wage and salary earners it is difficult, with existing data, to distinguish consumption habits by industry except insofar as different industries have different levels and distributions of wages and salaries and that these can be related to family incomes. /2/

Nevertheless, cross-sectional data offer the possibility of developing consumption patterns which depend on the characteristics of income recipients within each industry. In fixed coefficient models, these consumption patterns will take the form of coefficients calculated as the ratios of the estimated values of the particular categories of consumer expenditures associated with the incomes generated by each industry to the values of the outputs of industries. Implicit in these coefficients are proportionality assumptions relating, within each industry, incomes of persons to industry output, disposable incomes to incomes of persons, consumption to disposable incomes, and patterns of consumer expenditure to consumption. For wages and salaries, these proportionality assumptions will be differentiated by industry. For other incomes, an aggregate pattern of the consumer expenditures generated by such incomes will be applied to each industry.

Once established, these coefficients can be ordered in a matrix  $Y_c$ , the rows of which represent categories of consumer expenditure while the columns represent industries. Consumption classified by category of consumer expenditure, which has already been referred to as vector  $f_c$ , can then be determined as a function of industry outputs:

---

/1/ In the subsequent discussion, the net incomes of unincorporated businesses are not mentioned. They can be treated in the same way as wages and salaries.

/2/ Wage and salary earners also receive investment income. Moreover, some families include more than one wage earner and some wage earners have more than one job. It is not, therefore, a simple matter to associate the consumption habits of families with the wages and salaries generated within each industry.

$$(23) \quad f_c = Y_c g$$

This equation, in conjunction with eqs. (22), (1) and (16), defines the following solutions for industry outputs, consumption by category of consumer expenditure, commodity outputs and competing imports:

$$(24) \quad g = [I - D(I - \hat{\mu}_0)(B + E_c Y_c)]^{-1} D [(I - \hat{\mu}_0)e^+ + (I - \hat{\mu}_1)x]$$

$$(23) \quad f_c = Y_c g$$

$$(25) \quad q = (I - \hat{\mu}_0) (Bg + e^+ + E_c f_c) + (I - \hat{\mu}_1)x$$

$$(26) \quad m = \hat{\mu}_0 (Bg + e^+ + E_c f_c) + \hat{\mu}_1 x$$

It should be noted that in this model, once the pattern of consumption of an industry is estimated from the average incomes or the size distribution of incomes generated in that industry, it remains fixed; it does not vary with the level of output of the industry and hence with the level of incomes generated in the industry. Nevertheless, since each industry has a different pattern of consumption, relative variations in the output of industries will result in a changing aggregate pattern of consumption.

In order to introduce income elasticities of consumption within each industry, it is necessary to go to models with modifiable coefficients. /1/ In such models it is possible to relax the proportionality assumptions concerning the relationship of personal incomes to levels of output, of disposable incomes to personal incomes, and of consumption to disposable incomes. /2/ Replacement columns for matrix  $Y_c$  can in principle be introduced at each iteration as a function of the cumulative levels of industry outputs.

In the long run, modifications in the columns of matrix  $E_c$  can also be introduced. These modifications will reflect changes in the detailed commodity composition of categories of consumer expenditure as a function of levels of income and hence of levels of output.

---

/1/ See Section A.9.

/2/ Employment within each industry can be determined as a non-proportional function of industry outputs and used to calculate average levels of wages and salaries at each iteration which in turn will define changing patterns of consumption.

Models with modifiable coefficients based on eqs. (24), (23), (25) and (26), can also handle consumption functions calculated from time series data. In this case, each industry will generate a certain amount of disposable income /1/ at each iteration which, aggregated over all industries and cumulated over previous iterations, will define a changing distribution of consumption by category of consumer expenditure.

Models with fixed coefficients in which patterns of consumption are not differentiated by industry are the simplest of all the models designed to relate consumer expenditure to incomes. To define such models, each column of Matrix  $Y_c$  can be calculated on the basis of: (i) the common aggregate pattern of consumption; (ii) the disposable income generated by each industry, which will be proportional to the output of the industry. Thus these models are of the same form as the fixed coefficient models in which specific patterns of consumption are defined for the disposable incomes generated by each industry, i.e., they are represented by eqs. (24), (23), (25), and (26). However, these models are, in fact, equivalent to, and can be transformed into, standard models in which the relationship between incomes and consumption is specified by augmenting the matrix of intermediate input coefficients by one row and one column. /2/ In these models, consumption is strictly proportional to income and the pattern of consumption does not vary with the level of income.

#### A.12 Definition of Symbols

A number of the symbols in the list below do not appear in Chapters 3 and 4 or in Sections A.1 to A.11 of this Appendix. They are required to provide formal definitions of some of the symbols in those parts of the text where definitions are given only in words.

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/1/ Which will still be a non-proportional function of industry output.

/2/ See CHENERY and CLARK [1959], p.63.



The symbol  $\hat{\phantom{x}}$  over a matrix indicates that the matrix is diagonal.

The symbol  $'$  after a matrix or vector indicates transposition

The symbol  $^{-1}$  after a matrix indicates inversion.

There are  $r$  commodities,  $t$  industries,  $n$  categories of final demand and imports,  $w$  categories of consumer expenditure and  $p$  categories of primary inputs.

In describing matrices, the first classification given is that of the rows and the second, that of the columns.

$B$  is a matrix containing the intermediate input coefficients of industries classified by commodity and by industry. It is calculated as follows:  $B = U(\hat{g})^{-1}$

$B_j$  is a matrix of the same dimensions as matrix  $B$  whose  $j$ th column is identical with the  $j$ th column of matrix  $B$ , all of its other elements being equal to zero.

$B_1, B_2, B_3 \dots$  are matrices of input coefficients derived from matrix  $B$  through the modifications described in Section A.9.

$D$  is a matrix of coefficients representing the market shares of industries in the domestic production of commodities classified by industry and by commodity. It is calculated as follows:  
 $D = V(\hat{q})^{-1}$

$D^*$  is a matrix of coefficients representing the market shares of industries in the total supply of commodities classified by industry and by commodity. It is calculated as follows:  
 $D^* = V(\hat{q} + \hat{m})^{-1} = D(I - \hat{\mu})$

$D_j$  is a matrix of coefficients representing the market shares of industries in the domestic production of commodities used by the  $j$ th industry, classified by producing industry and by commodity.

$D_j^*$  is a matrix of coefficients representing the market shares of industries in the supply of commodities to the  $j$ th industry for intermediate use classified by industry and by commodity. It is calculated as follows:  $D_j^* = V_j(\hat{u}_j)^{-1} = D_j(I - \hat{\mu}_j)$



$D_k$  is a matrix of coefficients representing market shares of industries in the domestic production of commodities purchased by the  $k$ th category of final demand, classified by producing industry and by commodity.

$D_k^*$  is a matrix of coefficients representing the market shares of industries in the supply of commodities to the  $k$ th category of final demand classified by industry and by commodity. It is calculated as follows:  $D_k^* = V_k (e_k^*)^{-1} = D_k (I - \hat{\mu}_k)$

$D_0^*, D_1^*, D_2^*, \dots$  are market share matrices derived from matrix  $D^*$  through the modifications described in Section A.9.

$\Delta \text{ inv.}$  is a column vector containing the values of the physical changes in the inventories of competing commodities.

$e$  is a column vector containing total final demand for competing commodities classified by commodity, less competing imports classified by commodity. It is calculated as follows:  $/1/ e = F1_{(n)}$

$e^*$  is a column vector containing total final demand for competing commodities classified by commodity. It is calculated as follows:  
 $e^* = e + m$

$e^\circ$  is a column vector derived from vector  $e^*$  by subtracting the vector of commodity exports from the latter:  $e^\circ = e^* - x$

$e^\#$  is a column vector derived from vector  $e^\circ$  and the vector of exports through the following operations:  $e^\# = (I - \hat{\mu}_0)e^\circ + (I - \hat{\mu}_1)x$

$\begin{bmatrix} e_1^\# \\ \vdots \\ e_2^\# \end{bmatrix}$  is a column vector derived by partitioning vector  $e^\#$  as described in Section A.5.

$e_k^*$  is a column vector containing the expenditure on commodities of the  $k$ th category of final demand, classified by commodity.

---

/1/ The formal definitions of  $e, E, f', F, S, y_e$  and  $Y_E$  in this Section provide for imports and every category of final demand. Where these symbols are used in Chapters 3 and 4, and in Sections A.1 to A.11 of Appendix A, the inclusion or exclusion of imports and of particular categories of final demand is indicated by the particular context of their uses. This is done in order not to further complicate the notation.

$e_c$  is a column vector containing consumer expenditure on commodities classified by commodity. It is calculated as follows:  $e_c = F_c i^{(w)}$

$e^+$  is a column vector derived by subtracting vector  $e_c$  from vector  $e^o$ .

$E$  is a matrix of coefficients representing: (i) the base-year pattern of expenditures on commodities of categories of final demand, classified by commodity and by category of final demand; (ii) the base-year pattern of imports of commodities classified by commodity. It is calculated as follows: /1/  $E = F(\hat{f}')^{-1}$

$E_c$  is a matrix of coefficients representing the base-year pattern of expenditures on commodities of categories of consumer expenditure classified by commodity and by category of consumer expenditure. It is calculated as follows:  $E_c = F_c(\hat{f}_c')^{-1}$

$f'$  is a row vector containing total final demand classified by category of final demand and the total for imports with a negative sign. It is calculated as follows: /2/  $f' = i^{(r)'} F + i^{(p)'} S_f$

$f_c$  is a column vector of total consumer expenditure classified by category of expenditure. This vector contains  $w$  elements of vector  $f'$ .

$F$  is a matrix containing: (i) the expenditure on commodities of categories of final demand classified by commodity and by category of final demand; (ii) a column of the value of imports of commodities classified by commodity, with negative signs. /3/

$F_c$  is the part of matrix  $F$  which contains consumer expenditure on commodities classified by commodity and by category of consumer expenditure. Matrix  $F_c$  contains  $w$  columns of matrix  $F$ .

$g$  is a column vector of total industry outputs classified by industry.

$\begin{bmatrix} g_1 \\ \vdots \\ g_2 \end{bmatrix}$  is a column vector derived by partitioning vector  $g$  as described in Section A.5.

G is a matrix calculated as follows:  $G = [I - DB]^{-1}_{DE}$

H is a matrix calculated as follows:  $H = Y[I - DB]^{-1}_D$

i is a column vector, each of the elements of which is equal to one. Vector i can be of various dimensions indicated by a subscript in parentheses, e.g.,  $i_{(w)}$ ,  $i_{(n)}$

i' is a row vector, each of the elements of which is equal to one. Vector i' can be of various dimensions indicated by a subscript in parentheses, e.g.,  $i'_{(n)}$ ,  $i'_{(p)}$

I is the identity matrix.

K is a matrix calculated as follows:  $K = Y[I - D(I - \hat{\mu}_0)B]^{-1}_D$

m is a column vector containing competing imports classified by commodity.

$m_j$  is a column vector containing the use of competing imports by the jth industry for intermediate purposes, classified by commodity.

$m_k$  is a column vector containing the purchase of imported commodities by the kth category of final demand classified by commodity.

$\hat{\mu}$  is a diagonal matrix of coefficients representing, for each commodity, the ratio of total imports to total supply. It is calculated as follows:  $\hat{\mu} = \hat{m}(\hat{m} + \hat{q})^{-1}$

$\hat{\mu}_0$  is a diagonal matrix of coefficients representing, for each commodity, the ratio of total imports less re-exports to total supply less exports. It is calculated as follows:

$$\hat{\mu}_0 = (\hat{m} - \hat{x}_m)(\hat{m} + \hat{q} - \hat{x})^{-1}$$

$\hat{\mu}_1$  is a diagonal matrix of coefficients representing, for each commodity the ratio of re-exports to exports. It is calculated as follows:  $\hat{\mu}_1 = x_m(\hat{x})^{-1}$

- $\hat{\mu}_j$  is a diagonal matrix of coefficients representing, for each commodity, the ratio of the use of imports by the jth industry to the total use of the commodity by the jth industry. Matrix  $\hat{\mu}_j$  is calculated as follows:  $\hat{\mu}_j = \hat{m}_j (\hat{u}_j)^{-1}$
- $\hat{\mu}_k$  is a diagonal matrix of coefficients representing, for each commodity, the ratio of the purchase of imports by the kth category of final demand to the total purchase of the commodity by the kth category of final demand. Matrix  $\hat{\mu}_k$  is calculated as follows:  $\hat{\mu}_k = \hat{m}_k (\hat{e}_k^*)^{-1}$
- q is a column vector of total commodity outputs classified by commodity.
- R is a matrix calculated as follows:  $R = [I - D(I - \hat{\mu}_0)B]^{-1}D$
- $\begin{bmatrix} R_{11} & R_{12} \\ \vdots & \vdots \\ R_{21} & R_{22} \end{bmatrix}$  is a matrix derived by partitioning matrix R as described in Section A.5.
- $\Sigma$  is the summation sign.
- S is a matrix containing the primary inputs of industries classified by category of primary input and by industry. /1/
- $S_f$  is a matrix containing: (i) the primary inputs associated with the expenditures of categories of final demand, classified by category of primary input and by category of final demand; (ii) a column of primary inputs associated with imports, each element of which is multiplied by minus one (see Table A and Diagram 4 of Section 4.2). /2/
- $u_j$  is a column vector containing the intermediate inputs of industry j classified by commodity.
- U is a matrix containing the intermediate inputs of industries classified by commodity and by industry.

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/1/, /2/ See footnote on p. 159.



$V$  is a matrix containing the outputs of industries classified by industry and by commodity.

$V_j$  is a matrix containing domestically produced commodities used by the  $j$ th industry for intermediate purposes, classified by producing industry and by commodity.

$V_k$  is a matrix containing the domestically produced commodities purchased by the  $k$ th category of final demand, classified by producing industry and by commodity. It should be noted that

$$\sum_j V_j + \sum_k V_k = V.$$

$x$  is a column vector of total exports classified by commodity.

$x_m$  is a column vector of re-exports classified by commodity.

$y'$  is a row vector of the total primary inputs of industries, classified by industry. Vector  $y'$  is calculated as follows:

$$y' = i'_{(p)} S$$

$y_e$  is a scalar representing the total primary inputs associated with the expenditures of all categories of final demand less imports. It is equal to the sum of the elements of matrix  $S_f$  and is calculated as follows: /1/  $y_e = 1'_{(p)} S_f 1_{(n)}$

$Y$  is a matrix containing the primary input coefficients of industries classified by category of primary input and by industry. It is calculated as follows:  $Y = S(\hat{g})^{-1}$

$Y_c$  is a matrix of coefficients representing the consumer expenditure, generated by the personal incomes of each industry per unit of output of the industry, classified by category of personal expenditure and by industry (see Section A.10).

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/1/ See footnote on p. 159.

$Y_E$  is a matrix containing: (i) the primary input coefficients associated with the expenditures of categories of final demand, classified by category of primary input and by category of final demand; (ii) a column of primary input coefficients associated with imports. Matrix  $Y_E$  is calculated as follows: /1/  
$$Y_E = S_f(\hat{f}')^{-1}$$

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/1/ See footnote on p. 159.

LIST OF REFERENCES

- A. Publications of the Dominion Bureau of Statistics (Ottawa: Queen's Printer)
- No. 12-501 Standard Industrial Classification Manual (1960).
- No. 12-502 Standard Commodity Classification Manual - Vol. 1: The Classification (1959).
- No. 12-521 Export Commodity Classification - Vol. 1: The Classification (1961).
- No. 12-524 Import Commodity Classification - Vol. 1: The Classification (1964).
- No. 13-201 National Accounts, Income and Expenditure (annual).
- No. 13-502 National Accounts, Income and Expenditure, 1926-1956 (1962).
- No. 13-513 Supplement to the Interindustry Flow of Goods and Services, Canada, 1949 (1960).
- No. 42-211 Railroad Rolling Stock Industry, 1962 (1965).
- No. 61-203 Federal Government Enterprise Finance (annual).
- No. 61-204 Provincial Government Enterprise Finance (annual).
- No. 61-506 Real Domestic Product by Industry, 1961 Base (1968).
- No. 65-004 Trade of Canada - Exports by Commodities (monthly).
- No. 65-007 Trade of Canada - Imports by Commodities (monthly).
- No. 67-201 Canadian Balance of International Payments and International Investment Position (annual).

B. Other References

- Chenery, H.B. and P.G. Clark, Interindustry Economics (New York: John Wiley and Sons, 1959).
- Gigantes, Terry, "The Representation of Technology in Input-Output Systems," to appear in A.P. Carter and A. Brady (editors), Contributions to Input-Output Analysis (Amsterdam: North-Holland Publishing Co., 1969 - forthcoming).

LIST OF REFERENCES (Cont'd)

- Gigantes, Terry and Paul Pitts, "An Integrated Input-Output Framework and Some Related Analytical Models," a Paper presented to the Canadian Political Science Association Conference on Statistics, University of British Columbia, Vancouver, B.C., June 12 - 13, 1965 (mimeographed).
- Leontief, Wassily, "An Alternative to Aggregation in Input-Output Analysis and National Accounts," Review of Economics and Statistics, Vol. XLIX, No. 3 (Aug., 1967), 412-419.
- Matuszewski, T.I. et al., Rapport intérimaire sur le système de comptabilité économique du Québec, Vol. 1 et Vol. 1 annexe, Bureau de la Statistique du Québec et Laboratoire d'économétrie, Université Laval (1967).
- Matuszewski, T.I., P.R. Pitts and J.A. Sawyer, "L'ajustement periodique des systèmes de relations inter-industrielles, Canada 1949-1958," Econometrica, Vol. 31, No. 1-2 (Jan.-Apr., 1963), 90-110.
- Matuszewski, T.I., P.R. Pitts and J.A. Sawyer, "Linear Programming Estimates of Changes in Input Coefficients," The Canadian Journal of Economics and Political Science, Vol. XXX, No.2 (May, 1964), 203-210.
- Schweitzer, Thomas T., "Elasticities of Canadian Consumer Items," Economic Council of Canada (1967), (mimeographed).
- Stone, Richard (ed.), Input-Output Relationships, 1954-1966, No. 3 in A Programme for Growth, Department of Applied Economics, University of Cambridge (London: Chapman and Hall, 1963).
- Stone, R. and J.A.C. Brown, "A Long Term Growth Model for the British Economy," in R.C. Geary (ed.), Europe's Future in Figures (Amsterdam: North-Holland Publishing Co., 1962).
- United Nations: Department of Economic and Social Affairs, Statistical Office of the United Nations, A System of National Accounts, Studies in Methods, Series F, No. 2, Rev. 3 (New York: 1968).



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CLASSIFICATION OF 187 INPUT-OUTPUT INDUSTRIES

IOIC-W

INDUSTRY TITLES AND DEFINITIONS

<u>Input-Output Industry Number</u>	<u>Input-Output Industry Title</u>	<u>Standard Industrial Classification Number</u>
1.	Agriculture	001,003,006,011, 013,015,017,019, 021
2.	Forestry	031,039
3.	Fishing, Hunting, Trapping	041,045,047
4.	Base Metal and Other Metal Mines	053,054,055,056, 059
5.	(Blank)	
6.	Uranium Mines	057
7.	Iron Mines	058
8.	Gold Mines	051,052
9.	Coal Mines	061
10.	Petroleum & Gas Wells	063,065,066
11.	(Blank)	
12.	Asbestos Mines	071
13.	Gypsum Mines	073
14.	Salt Mines	077
15.	Other Non-Metal Mines	079
16.	Quarries & Sand Pits	083,087
17.	Services Incidental to Mining	092,094,096,098, 099
18.	Slaughtering and Meat Processors	101
19.	Poultry Processors	103
20.	Dairy Factories	105

<u>Input-Output Industry Number</u>	<u>Input-Output Industry Title</u>	<u>Standard Industrial Classification Number</u>
21.	Process Cheese Manufacturers	107
22.	Fish Products Industry	111
23.	Fruit & Vegetable Canners and Preservers	112
24.	Feed Manufacturers	123
25.	Flour Mills	124
26.	Breakfast Cereal Manufacturers	125
27.	Biscuit Manufacturers	128
28.	Bakeries	129
29.	Confectionery Manufacturers	131
30.	Sugar Refineries	133
31.	Vegetable Oil Mills	135
32.	Miscellaneous Food Industries	139
33.	Soft Drink Manufacturers	141
34.	Distilleries	143
35.	Breweries	145
36.	Wineries	147
37.	Leaf Tobacco Processing	151
38.	Tobacco Products Manufacturers	153
39.	Rubber Footwear Manufacturers	161
40.	Tire & Tube Manufacturers	163
41.	Other Rubber Industries	169
42.	Leather Tanneries	172
43.	Shoe Factories	174
44.	Leather Glove Factories	175
45.	Luggage, Handbag & Small Leather Goods Manufacturers	179
46.	Cotton Yarn and Cloth Mills	183
47.	Wool Yarn Mills	193
48.	Wool Cloth Mills	197
49.	Synthetic Textile Mills	201
50.	Fibre Preparing Mills	211

<u>Input-Output Industry Number</u>	<u>Input-Output Industry Title</u>	<u>Standard Industrial Classification Number</u>
51.	Thread Mills	212
52.	Cordage & Twine Industry	213
53.	Narrow Fabric Mills	214
54.	Pressed & Punched Felt Mills	215
55.	Carpet, Mat & Rug Industry	216
56.	Textile Dyeing and Finishing Plants	218
57.	Linoleum & Coated Fabrics Industry	219
58.	Canvas Products Industry	221
59.	Cotton and Jute Bag Industry	223
60.	Miscellaneous Textile Industries	229
61.	Hosiery Mills	231
62.	Other Knitting Mills	239
63.	Clothing Industries	242,243,244,245, 246,247,248,249
64.	Sawmills	251
65.	Veneer and Plywood Mills	252
66.	Sash & Door & Planing Mills	254
67.	Wooden Box Factories	256
68.	Coffin and Casket Industry	258
69.	Miscellaneous Wood Industries	259
70.	Household Furniture Industry	261
71.	Office Furniture Industry	264
72.	Other Furniture Industries	266
73.	Electric Lamp and Shade Industry	268
74.	Pulp and Paper Mills	271
75.	Asphalt Roofing Manufacturers	272
76.	Paper Box & Bag Manufacturers	273
77.	Other Paper Converters	274
78.	Printing & Publishing	286,288,289
79.	Engraving, Stereotyping and Allied Industries	287
80.	Iron and Steel Mills	291



<u>Input-Output Industry Number</u>	<u>Input-Output Industry Title</u>	<u>Standard Industrial Classification Number</u>
81.	Steel Pipe & Tube Mills	292
82.	Iron Foundries	294
83.	Smelting & Refining	295
84.	Aluminum Rolling, Casting & Extruding	296 296
85.	Copper & Alloy Rolling, Casting and Extruding	297
86.	Metal Rolling, Casting and Extruding, n.e.s.	298
87.	Boiler & Plate Works	301
88.	Fabricated Structural Metal Industry	302
89.	Ornamental & Architectural Metal Industry	303
90.	Metal Stamping, Pressing and Coating Industry	304
91.	Wire & Wire Products Manufacturers	305
92.	Hardware, Tool & Cutlery Manufacturers	306
93.	Heating Equipment Manufacturers	307
94.	Machine Shops	308
95.	Miscellaneous Metal Fabricating Industries	309
96.	Agricultural Implement Industry	311
97.	Miscellaneous Machinery & Equipment Manufacturers	315
98.	Commercial Refrigeration & Air Conditioning Equipment Manufacturers	318
99.	Office & Store Machinery Manufacturers	318
100.	Aircraft & Parts Manufacturers	321
101.	Motor Vehicle Manufacturers	323
102.	Truck Body & Trailer Manufacturers	324
103.	Motor Vehicle Parts and Accessories Manufacturers	325
104.	Railroad Rolling Stock Industry	326

<u>Input-Output Industry Number</u>	<u>Input-Output Industry Title</u>	<u>Standard Industrial Classification Number</u>
105.	Shipbuilding and Repair	327
106.	Miscellaneous Transportation Equipment Industries	328,329
107.	Manufacturers of Small Electrical Appliances	331
108.	Manufacturers of Major Appliances (electric and non-electric)	332
109.	Manufacturers of Household Radio and Television Receivers	334
110.	Communications Equipment Manufacturers	335
111.	Manufacturers of Electrical Industrial Equipment	336
112.	Battery Manufacturers	337
113.	Manufacturers of Electric Wire and Cable	338
114.	Manufacturers of Miscellaneous Electrical Products	339
115.	Cement Manufacturers	341
116.	Lime Manufacturers	343
117.	Gypsum Products Manufacturers	345
118.	Concrete Products Manufacturers	347
119.	Ready-Mix Concrete Manufacturers	348
120.	Clay Products Manufacturers	351
121.	Refractories Manufacturers	352
122.	Stone Products Manufacturers	353
123.	Mineral Wool Manufacturers	354
124.	Asbestos Products Manufacturers	355
125.	Glass & Glass Products Manufacturers	356
126.	Abrasives Manufacturers	357
127.	Other Non-Metallic Mineral Products Industries	359
128.	Petroleum Refineries	365
129.	Other Petroleum and Coal Products Industries	369

<u>Input-Output Industry Number</u>	<u>Input-Output Industry Title</u>	<u>Standard Industrial Classification Number</u>
130.	Explosives and Ammunition Manufacturers	371
131.	Manufacturers of Mixed Fertilizers	372
132.	Manufacturers of Plastics and Synthetic Resins	373
133.	Manufacturers of Pharmaceuticals and Medicines	374
134.	Paint and Varnish Manufacturers	375
135.	Manufacturers of Soap and Cleaning Compounds	376
136.	Manufacturers of Toilet Preparations	377
137.	Manufacturers of Industrial Chemicals	378
138.	Other Chemical Industries	379
139.	Scientific & Professional Equipment Manufacturers	381
140.	Jewelry & Silverware Manufacturers	382
141.	Broom, Brush and Mop Industry	383
142.	Venetian Blind Manufacturers	384
143.	Plastic Fabricators, n.e.s.	385
144.	Sporting Goods & Toy Industry	393
145.	Fur Dressing & Dyeing Industry	395
146.	Signs & Displays Industry	397
147.	Miscellaneous Manufacturing Industries, n.e.s.	399
148.	Construction Industry	404,406,409,421
149.	Air Transport	501
150.	Services Incidental to Transportation	502,505,517,519
151.	Water Transport	504
152.	Railway Transport	506
153.	Truck Transport	507
154.	Bus Transport, Interurban and Rural	508
155.	Urban Transit Systems	509
156.	Taxicab Operations	512
157.	Pipeline Transport	515

<u>Input-Output Industry Number</u>	<u>Input-Output Industry Title</u>	<u>Standard Industrial Classification Number</u>
158.	Highway and Bridge Maintenance	516
159.	Storage	524,527
160.	Radio & Television Broadcasting	543
161.	Communication Industries, n.e.s.	544,545
162.	Post Office	548
163.	Electric Power	572
164.	Gas Distribution	574
165.	Water & Other Utilities	576,579
166.	Wholesale Trade	602,604,606,608, 611,613,614,615, 616,617,618,619, 621,622,623,624, 625,626,627,629
167.	Retail Trade	631,642,647,649, 652,654,656,658, 663,665,667,669, 673,676,678,681, 691,692,693,694, 695,696,697,699
168.	Finance, Insurance and Real Estate	702,704,731,735, 737
169.	Education and Related Services	801,803,805,807, 809
170.	Hospitals	821
171.	Health Services	823,825,827
172.	(Blank)	
173.	Motion Picture Theatres and Film Exchanges	851
174.	Other Recreational Services	853,859
175.	Professional Services to Business Management	861,864,866
176.	Advertising Services	862
177.	Laundries, Cleaners and Pressers	874
178.	Hotels and Restaurants	875,876
179.	Other Personal Services	871,872,877,878, 879
180.	Photography	893



<u>Input-Output Industry Number</u>	<u>Input-Output Industry Title</u>	<u>Standard Industrial Classification Number</u>
181.	Miscellaneous Repair & Maintenance	894,896,897
182.	Miscellaneous Services to Business and Persons	869,899
183.	Machinery Maintenance and Minor Repair Supplies	Dummy Industries
184.	Office Supplies	
185.	Food Distribution and Cafeteria Requirements	
186.	Building Maintenance, Cleaning, Medical & Safety Supplies	
187.	Laboratory Supplies	
188.	Travel & Entertainment	
189.	(Blank)	
190.	Advertising	
191.	Machinery Repair Services	

Note that Input-Output Industry Code Numbers 5, 11, 172 and 189 are blank.

CLASSIFICATION OF 16 INPUT-OUTPUT INDUSTRIES

IOIC-S

INDUSTRY TITLES & DEFINITIONS

<u>16 Industry Aggregation No.</u>	<u>Input-Output 16 Industry Aggregation Title</u>	<u>Input-Output Worksheet Industry Number</u>
1.	Agriculture, Forestry, Fishing and Trapping	001,002,003
2.	Mines and Quarries, excluding Coal Mines	004,006,007,008, 012,013,014,015, 016
3.	Mineral Fuel Mines and Wells	009,010,017
4.	Food, Feed, Beverage, and Tobacco Industries	018,019,020,021, 022,023,024,025, 026,027,028,029, 030,031,032,033, 034,035,036,037, 038
5.	Textile Industries	042,043,044,045, 046,047,048,049, 050,051,052,053, 054,055,056,057, 058,059,060,061, 062,063
6.	Wood and Furniture Industries	064,065,066,067, 068,069,070,071, 072,073
7.	Paper and Allied Industries	074,075,076,077
8.	Primary Metal and Metal Fabricating Industries	080,081,082,083, 084,085,086,087, 088,089,090,091, 092,093,094,095, 097,098,099

<u>16 Industry Aggregation No.</u>	<u>Input-Output 16 Industry Aggregation Title</u>	<u>Input-Output Worksheet Industry Number</u>
9.	Transportation and Electric Equipment Manufacturers	096,100,101,102, 103,104,105,106, 107,108,109,110, 111,112,113,114
10.	Chemical, Rubber & Petroleum Products Industries	039,040,041,128, 129,130,131,132, 133,134,135,136, 137,138
11.	Other Manufacturing Industries	078,079,115,116, 117,118,119,120, 121,122,123,124, 125,126,127,139, 140,141,142,143, 144,145,146,147
12.	Construction Industries	148
13.	Transportation, Storage and Trade Industries	149,150,151,152, 153,154,155,156, 157,158,159,166, 167
14.	Electric Power, Gas and Water Utilities	163,164,165
15.	Communications and Other Service Industries	160,161,162,168, 169,170,171,172, 173,174,175,176, 177,178,179,180, 181,182
16.	Miscellaneous Operating Costs Dummy Industry	183,184,185,186, 187,188,190,191

CLASSIFICATION OF 65 INPUT-OUTPUT INDUSTRIES

IOIC-M

INDUSTRY TITLES AND DEFINITIONS

<u>65 Industry Aggregation No.</u>	<u>Input-Output 65 Industry Aggregation Title</u>	<u>Input-Output Worksheet Industry Number</u>
1.	Agriculture	001
2.	Forestry	002
3.	Fishing, Hunting, Trapping	003
4.	Metal Mines	004,006,007,008
5.	Non-Metal Mines	012,013,014,015, 016
6.	Coal Mines	009
7.	Petroleum, Gas & Services Incidental to Mining	010,011,017
8.	Meat & Poultry Processors	018,019
9.	Dairy Factories	020,021
10.	Fruit & Vegetables Cannerys and Preservers	023
11.	Feed, Flour, Cereal Manufacturers	024,025,026
12.	Biscuit & Bakery Industries	027,028
13.	Sugar, Confectionery Manufacturers	029,030
14.	Other Food Industries	022,031,032
15.	Soft Drink Manufacturers	033
16.	Alcoholic Beverage Manufacturers	034,035,036
17.	Tobacco Products Industries	037,038
18.	Rubber Products Manufacturers	039,040,041
19.	Leather Products Manufacturers	042,043,044,045
20.	Synthetic Textile Mills	049
21.	Cotton, Yarn and Cloth Mills	046



<u>65 Industry Aggregation No.</u>	<u>Input-Output 65 Industry Aggregation Title</u>	<u>Input-Output Worksheet Industry Number</u>
22.	Knitting Mills	061,062
23.	Clothing Industries	063
24.	Other Textiles Industries	047,048,050,051, 052,053,054,055, 056,057,058,059, 060
25.	Sawmills	064
26.	Furniture & Fixture Industries	070,071,072,073
27.	Other Wood Industries	065,066,067,068, 069
28.	Pulp & Paper Mills	074
29.	Other Paper Industries	075,076,077
30.	Printing and Publishing	078,079
31.	Iron & Steel Mills	080
32.	Smelting & Refining	083
33.	Other Primary Metal Industries	081,082,084,085, 086
34.	Fabricated Structural Metal Industry	088
35.	Metal Stamping, Pressing and Coating Industry	090
36.	Other Metal Working Industries	087,089,091,092, 093,094,095
37.	Manufacturers of Machinery (n.e.s.)	096,097,098,099
38.	Aircraft and Parts Manufacturers	100
39.	Motor Vehicles and Trailer Manufacturers	101,102
40.	Motor Vehicle Parts Manufacturers	103

<u>65 Industry Aggregation No.</u>	<u>Input-Output 65 Industry Aggregation Title</u>	<u>Input-Output Worksheet Industry Number</u>
41.	Other Transportation Equipment Manufacturers	104,105,106
42.	Electrical Appliance Manufacturers	107,108
43.	Manufacturers of Electric Industrial Equipment	111
44.	Manufacturers of Communication Equipment Including Wire	110,113
45.	Other Electrical Products Manufacturers	109,112,114
46.	Manufacturers of Clay, Lime & Cement	115,116,117,118, 119,120,121,122
47.	Manufacturers of Non-Metal Mineral Products, n.e.s.	123,124,125,126, 127
48.	Petroleum & Coal Products Industries	128,129
49.	Plastic Manufacturers & Synthetic Resins	132
50.	Paint & Varnish Manufacturers	134
51.	Pharmaceutical, Soap & Toiletry Products Manufacturers	133,135,136
52.	Other Chemical Industries	130,131,137,138
53.	Miscellaneous Manufacturing Industries	139,140,141,142, 143,144,145,146, 147
54.	Construction	148
55.	Wholesale & Retail Trade	166,167
56.	Transport & Storage	149,150,151,152, 153,154,155,156, 157,158,159
57.	Communications	160,161,162
58.	Utilities	163,164,165
59.	Finance, Insurance & Real Estate	168
60.	Business Services	175,176
61.	Hotels and Restaurants	178

<u>65 Industry Aggregation No.</u>	<u>Input-Output 65 Industry Aggregation Title</u>	<u>Input-Output Worksheet Industry Number</u>
62.	Other Services	169,170,171,172, 173,174,177,179, 180,181,182
63.	Office Supplies	184
64.	Advertising & Travel	188,189,190
65.	Repair & Operating Supplies	183,185,186,187, 191

CLASSIFICATION OF 110 INPUT-OUTPUT INDUSTRIES

IOIC-L

INDUSTRY TITLES & DEFINITIONS

<u>110 Industry Aggregation No.</u>	<u>Input-Output 110 Industry Aggregation Title</u>	<u>Input-Output Worksheet Industry Number</u>
1.	Agriculture	001
2.	Forestry	002
3.	Fishing, Hunting, Trapping	003
4.	Iron Mines	007
5.	Base Metal Mines	004,005
6.	Uranium Mines	006
7.	Other Metal Mines	008
8.	Coal Mines	009
9.	Petroleum, Gas & Services Incidental to Mining	010,011,017
10.	Asbestos Mines	012
11.	Other Non-Metal Mines	013,014,015,016
12.	Slaughtering & Meat Processors	018
13.	Poultry Processors	019
14.	Dairy Factories	020
15.	Process Cheese Manufacturers	021
16.	Fish Products Industry	022
17.	Fruit & Vegetable Cannerys and Preservers	023
18.	Feed Mills	024
19.	Flour Mills	025
20.	Breakfast Cereal Manufacturers	026
21.	Biscuit Manufacturers	027
22.	Bakeries	028
23.	Confectionery Manufacturers	029



<u>110 Industry Aggregation No.</u>	<u>Input-Output 110 Industry Aggregation Title</u>	<u>Input-Output Worksheet Industry Number</u>
24.	Sugar Refineries	030
25.	Vegetable Oil Mills	031
26.	Miscellaneous Food Industries	032
27.	Soft Drink Manufacturers	033
28.	Distilleries	034
29.	Breweries & Wineries	035,036
30.	Leaf Tobacco Processing	037
31.	Tobacco Products Manufacturers	038
32.	Rubber Footwear Manufacturers	039
33.	Tire & Tube Manufacturers	040
34.	Other Rubber Industries	041
35.	Leather Tanneries	042
36.	Shoe Factories	043
37.	Glove & Luggage Manufacturers	044,045
38.	Cotton Yarn & Cloth Mills	046
39.	Wool Yarn & Cloth Mills	047,048
40.	Synthetic Textile Mills	049
41.	Carpet, Mat & Rug Industry	055
42.	Linoleum & Coated Fabrics Industry	057
43.	Textile Bags & Canvas Products Industry	058,059
44.	Other Textile Industries	050,051,052,053, 054,056,060
45.	Hosiery Mills	061
46.	Other Knitting Mills	062
47.	Clothing Industries	063
48.	Sawmills	064
49.	Veneer & Plywood Mills	065
50.	Sash & Door and Planing Mills	066
51.	Other Wood Industries	067,068,069
52.	Household Furniture Industry	070
53.	Other Furniture Industries	071,072,073

<u>110 Industry Aggregation No.</u>	<u>Input-Output 110 Industry Aggregation Title</u>	<u>Input-Output Worksheet Industry Number</u>
54.	Pulp & Paper Mills	074
55.	Asphalt Roofing Manufacturers	075
56.	Paper Box & Bag Manufacturers	076
57.	Other Paper Convertors	077
58.	Printing, Publishing & Engraving	078,079
59.	Iron & Steel Mills	080
60.	Steel Pipe & Tube Mills	081
61.	Iron Foundries	082
62.	Smelting & Refining	083
63.	Aluminum Rolling, Casting and Extruding	084
64.	Copper & Alloy Rolling, Casting and Extruding	085
65.	Metal Rolling, Casting and Extruding, n.e.s.	086
66.	Boiler & Plate Works	087
67.	Fabricated Structural Metal Industry	088
68.	Ornamental & Architectural Metal Industry	089
69.	Metal Stamping, Pressing & Coating Industry	090
70.	Wire & Wire Products Manufacturers	091
71.	Hardware, Tool & Cutlery Manufacturers	092
72.	Other Metal Fabricating Industries	093,094,095
73.	Machinery & Equipment Manufacturers	096,097
74.	Refrigeration, Office & Store Machinery Manufacturers	098, 099
75.	Aircraft & Parts Manufacturers	100
76.	Motor Vehicles & Trailer Manufacturers	101,102
77.	Motor Vehicle Parts Manufacturers	103
78.	Other Transportation Equipment Industries	104,105,106
79.	Manufacturers of Electrical Appliances	107,108

<u>110 Industry Aggregation No.</u>	<u>Input-Output 110 Industry Aggregation Title</u>	<u>Input-Output Worksheet Industry Number</u>
80.	Manufacturers of Communications Equipment, including Wire	110,113
81.	Manufacturers of Electrical Industrial Equipment	111
82.	Other Electrical Products Manufacturers	109,112,114
83.	Cement & Lime Products Manufacturers	115,116
84.	Concrete & Gypsum Products Manufacturers	117,118,119
85.	Clay, Stone & Refractory Products Manufacturers	120,121,122
86.	Glass & Glass Products Manufacturers	125
87.	Other Non-Metal Mineral Products Industries	123,124,126,127
88.	Petroleum & Coal Products Industries	128,129
89.	Explosives & Ammunition Manufacturers	130
90.	Manufacturers of Mixed Fertilizers	131
91.	Manufacturers of Plastic Resins	132
92.	Manufacturers of Pharmaceuticals and Medicines	133
93.	Paints & Varnishes Manufacturers	134
94.	Manufacturers of Soap and Cleaning Compounds	135
95.	Manufacturers of Toilet Preparations	136
96.	Industrial & Other Chemical Industries	137,138
97.	Miscellaneous Manufacturing Industries	139,140,141,142, 143,144,145,146, 147
98.	Construction	148
99.	Wholesale and Retail Trade	166,167
100.	Transportation & Storage	149,150,151,152, 153,154,155,156, 157,158,159

<u>110 Industry Aggregation No.</u>	<u>Input-Output 110 Industry Aggregation Title</u>	<u>Input-Output Worksheet Industry Number</u>
101.	Communications	160,161,162
102.	Utilities	163,164,165
103,	Finance, Insurance & Real Estate	168
104.	Health & Education Industries	170,171
105.	Business Services	175,176
106.	Hotels, Restaurants	178
107.	Personal & Other Services	169,172,173,174, 177,179,180,181, 182
108.	Office Supplies	184
109.	Advertising & Travel	188,190
110.	Repair & Operating Supplies	183,185,186,187, 191



CLASSIFICATION OF 644 INPUT-OUTPUT COMMODITIES

IOCC-W

COMMODITY TITLES AND DEFINITIONS

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
1-001	Cattle and calves.	00110-90	00119,99	00119-90
1-002	Sheep and lambs.	00219,49	00249	00219,49
1-003	Hogs.	00319,49	00349	00319,49
1-004	Poultry	00619-99	00630-99	00630,99
1-005	Fur bearing animals.	00710-99	00739,99	00739,99
1-006	Other live animals.	00419-49; 00905-99	00419-49; 00910-99	00425-49; 00999
1-007	Rice, unmilled.	06144,49	06144,49	06175,99s
1-008	Wheat, unmilled.	06161,69	06199s	06161-69
1-009	Barley, oats, rye, corn and other cereals, unmilled.	06111-39, 59,99	06129,39, 99s	06119-59, 99s
1-010	Milk, whole, fluid, unprocessed.	05108s	05119s	05119s,99s
1-011	Eggs in the shell.	05305-19	05319	05309,19
1-012	Honey and beeswax.	05500; 39405	05509; 39405	05509; 39849s
1-013	Nuts for food, not shelled.	08110-99	08110-99	08099s
1-014	Fruits and berries, fresh or chilled, excluding tropical.	07103,06,12, 18,30-36,42, 45,51-99	07103,06,11, 12,17,18,30- 36,42,45,50, 51,59s,63-89	07103-51,59s, 63-89
1-015	Vegetables, fresh or chilled.	09105-99	09105-99	09135-99
1-016	Hay, forage and straw.	15110-50	15572	15119-50

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
1-017	Grass and other seeds for sowing, excluding seed grades of cereal, potatoes and oil seeds which are included in their respective commodities.	21101-99	21101-99	21101-99
1-018	Nursery and greenhouse stock and related materials.	21303-99	21303-99	21329-99
1-019	Oil seeds, oil nuts and oil kernels.	21210-99	21230-99	21230-99
1-020	Hops, including lupulin.	14415	14415	14499s
1-021	Tobacco, raw.	18110-18299s	18110-18299s	18005-99s
1-022	Mink skins, ranch, undressed.	20238	20239s	20238
1-023	Wool in the grease.	24203-07	24209	24209
1-024	Services incidental to agriculture.	N/A	N/A	N/A
2-025	Logs and bolts.	23102-79; 23329,79	23129-79; 23859s	23112-59; 23399
2-026	Poles, pit props, fence-posts and other round timber.	23405-99	23855,59s	23407-99
2-027	Pulpwood.	23624-60	23869s	23624-79
2-028	Other crude wood materials.	23909-99	23899	23909-99
2-029	Custom forestry.	N/A	N/A	N/A
3-030	Fish landings.	03102-04990s	03021-04999s	03106-04999s
3-031	Fur skins, undressed, excluding ranch mink.	20203-36, 40-99	20220-36,39s, 45-89	20203-33,40-89

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
4-032	Metal ores and concentrates, n.e.s.	25210,30; 25310; 25410; 25510; 25650; 25710; 25903; 06,12-35,40-50, 60-90	25210,30; 25339s; 25825, 40,75,78s,99s	25229;25310; 25410s;25520s, 25650;25710s; 25920,65,75,98
6-033	Radio-active ores and concentrates.	25955	25899s	25955
7-034	Iron ores and concentrates.	25109,19	25120	25109,19
8-035	Gold and platinum ores and concentrates.	25610,20,29	25899s	25629
8-036	Gold and gold alloys in primary form.	45509	N/A	N/A
9-037	Coal.	26105-60	26105-69	26169
10-038	Crude mineral oils.	26210-30	26410,99s	26410,99s
10-039	Natural gas.	26310	26431	26431; 43609
10-040	Other crude bituminous substances.	26349	26499s	26499s
10-041	Sulphur, crude and refined.	27977	27977s	27977
12-042	Asbestos, unmanufactured, crude, and fibrous.	27110-40	27903	27110-40
13-043	Gypsum.	27940	27940	27940
14-044	Salt.	27970,71	27968,70	27970
15-045	Peatmoss.	21930	21999s	21930
15-046	Clay and other crude refractory materials.	27210-99	27210-99	27249,99
15-047	Natural abrasives and industrial diamonds.	27410-99	27410-99	27410-99

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
15-048	Other crude non-metallic minerals.	26320;27310, 20; 27905-35, 45-65,75,80- 99	26432;27905- 30,52,65,77s, 80,85,99s	26499s; 27905-30,55, 75,90,99
16-049	Sand and gravel.	27510-40	27510,49	27529,40
16-050	Stone, crude.	27610-99	27610-99	27649-99
17-051	Services incidental to mining.	N/A	N/A	N/A
18-052	Beef, veal, mutton and pork, fresh, chilled or frozen.	01105-29,55, 59	01109-55,59s	01109-29,55, 59
18-053	Horse meat, fresh, chilled or frozen.	01135	01159s	01135
18-054	Meat, cured.	01309-99	01309-99	01309-99
18-055	Meat and meat prepar- ations, ready cooked, not canned.	01505-69,89, 99	01519,95, 99s	01519,25, 99s
18-056	Meat and meat prepar- ations, canned.	01702-39,55- 99	01703,09,80, 99s	01730,39, 69,99s
18-057	Animal oils and fats and lard.	12300; 39105- 99	12099; 39115- 99	12099; 39120-99
18-058	Margerine, shortening and similar products.	12100, 12200	12049	12049
18-059	Sausage casings, nat- ural and synthetic.	14440-50	14440-50	14449s
18-060	Primary tankage.	20305-99	20973	20319-99
18-061	Feeds of animal origin, n.e.s.	15605-30,99	15699s	15610,29 99s
18-062	Hides and skins, raw, n.e.s.	20110-99	20110-99	20110-99



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
18-063	Animal materials for drugs and perfumes and crude animal products, n.e.s.	20630,99; 20750,99; 20905,99	20976s,99s	20699s; 20999s
18-064	Custom meat packing.	N/A	N/A	N/A
19-065	Poultry, fresh, chilled or frozen.	01165-99	01165-98	01199
19-066	Poultry, canned.	01749	01799s	01799s
20-067	Milk, whole, fluid, processed.	05108s	05119s	05119s,99s
20-068	Cream, fresh.	05102	05119s	05119s,99s
20-069	Butter.	05122,24	05129s	05129s
20-070	Cheese, cheddar and milk.	05130-34	05139s	05130,39s
20-071	Milk, evaporated.	05166,68	05169s	05167
20-072	Ice cream.	05176	05199s	05199s
20-073	Other dairy products	05104,10-18, 26,42-64,70, 72, 78-99; 10145;20910	05119s,29s, 39s,46,59, 69s;10149s, 20910	05129s,39s,50, 52,59,63,75, 99s; 10150s; 20910
21-074	Process cheese.	05136-40	05139s	05139s
21-075	Mustard, mayonnaise, salad dressings and sandwich spreads	09710,80,90	09999s	09999s
22-076	Fish and marine animals processed for human consumption, fish meal, marine oil and other fish prod- ucts.	03102-04990s; 15645-70; 20660;20920- 95;21925,35, 40;39206-99; 39440	03021-04999s; 15660,99s; 20970,76s, 99s;21999s; 39229,99; 39449s	03106-04999s; 15655,60,70; 20660,99s; 20920,99s; 21939s,99s; 39208-99; 39849s;41603

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
23-077	Fruits and berries frozen, dried and dehydrated and fruit juices, unconcent- rated and concentrated.	07203-07651	07212-07659	07263-07499; 07799s
23-078	Fruits and prepar- ations, canned.	07803-99	07806-99	07803-99
23-079	Fruit, crystallized and glaze.	07655-99	07699	07799s
23-080	Vegetables, frozen, dried, and preserved.	09206-09449	09205-09799	09299-09799
23-081	Vegetables and prepar- ations, canned.	09504-99	09805-99	09810-99
23-082	Soups, canned.	14110-29	14159s	14110, 59s
23-083	Infant and junior foods, canned.	14210-39	14299s	14299s
23-084	Pickles, relishes and other sauces.	09720-70	09915-70; 09999s	09925, 99s
23-085	Vinegar.	11710-90	11749	11079
23-086	Other food prepar- ations, pre-cooked and frozen, or canned.	06510;14320- 99; 14613; 17199;17270	06549s;14320- 29;14399; 14699s;17199s; 17299	06549s;14699s 17199s;17299s
24-087	Primary or concent- rated feeds.	15805-99	15799s	15799s
24-088	Secondary feeds for commercial livestock.	15905-59,72- 85	15709, 99s	15709, 49, 99s
24-089	Chopped and scratch feeds, hulls of grains and seeds, barley and oat by-products, and oat groats.	15205-30, 49- 59	15577s	15210, 19, 39s, 59, 99s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
24-090	Legume and grass meal and feeds of vegetable origin, n.e.s.	15509,15,99; 15675	15519,99s; 15675	15519,99s, 15699s
24-091	Pet feeds.	15963-69,90, 99	15769,99s	15769,99s
25-092	Wheat flour.	06260,70	06299s	06265,67,69
25-093	Meal and flour of other cereals and vegetables.	06205-25,40- 55;06910,30- 99	06215-50,99s; 06930-99	06215,45,99s; 06899s
25-094	Wheat bran, shorts and middlings and other grain feeds, n.e.s.	15262,99	15577s	15269,99s
26-095	Breakfast cereal products.	06610-30,99	06630,99s	06830,99s
27-096	Biscuits, ice cream cones and similar products.	06415-25,99	06417,19,55, 99s	06420,99s
28-097	Bread and rolls.	06405,10	06499s	06409
28-098	Other bakery products.	01579;06430- 50	01599s;06430, 99s	01599s;06499s
29-099	Cocoa and chocolate.	11120-99	11140-99	11019
29-100	Nuts, kernels and seeds for food, shelled or prepared.	08210-25,40- 99	08210-25,40- 99	08099s
29-101	Chocolate confectionery.	10410-20	10416,20	10420
29-102	Other confectionery.	10405,25-60, 99	10402,05,99s	10499s
30-103	Beet pulp.	15525	15599s	15525

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
30-104	Sugar (sucrose), refined.	10125,29	10149s	10150s
30-105	Molasses and other sugar refinery products.	10133,49-69, 90	10168,70,91s	10150s,99s
31-106	Oilseed meal and cake.	15310-99	15320-99	15330-99
31-107	Vegetable oils and fats, crude.	39303,07,11, 15,19,23,27, 31,35,39,43, 47,51,55,59, 63,80,87	39308s,12s, 16s,20s,24s, 36s,40s,44s, 48s,52s,60s, 85s,99s	39328s,56s, 60s,99s
31-108	Oils, fats and waxes, oxidized, blown, boiled or otherwise chemically modified.	39505-59	39559,99s	39859s
31-109	Nitrogen function com- pounds, n.e.s.	41103-26,40, 47-53,63-99	41163-81,99s	41459s
32-110	Malt, malt flour and wheat starch.	06230,35,72, 99	06299s	06230,99s
32-111	Maple sugar and syrup, invert sugar, glucose and corn syrup.	10105,09,36, 39,80	10110,91s	10105,09,50s, 99s
32-112	Prepared cake and similar mixes.	06640	06699s	06899s
32-113	Soups, dried, and soup mixes and bases.	14149	14159s	14159s
32-114	Coffee, roasted, ground or prepared.	11220-49	11220-49	11029
32-115	Tea.	11310-49	11310-49	11039
32-116	Potato chips, flakes, frills and similar products.	14681	14681	14699s



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
32-117	Miscellaneous Products and by-products of food manufacturers, n.e.s.	05325-49; 06520-49; 06920;08230; 10470;11405- 99;14249,90; 14405,10,20, 25,30,35,65, 75,99;14605- 12,15-50,60- 79,85,99; 15235;15550- 60;15680; 39320;42973, 74	05359,69; 06520,49s; 06920;08230; 10499s;11420- 99; 14299s; 14409,10,20, 31,35,76,99; 14636,46,50, 99s; 15577s, 99s; 15699s; 39320s; 42999s	05359,69; 06520,49s; 06899s; 08099s; 10499s; 11049; 14299s;14476, 99s;14649,99s; 15239s;15550, 59s; 15699s; 39399s;42999
33-118	Concentrates and syrops for soft drinks.	10475	10499s	10499s
33-119	Carbonated beverages, soft drinks, and mineral waters.	17150,80	17199s	17199s
34-120	Alcoholic beverages, distilled.	17310-80	17310-60, 99s	17320,40, 99s
34-121	Neutral spirits and wine spirits.	17390	17399s	17399
34-122	Ethyl alcohol.	40701,03	40799s	41429s
34-123	Brewers' and dis- tillers' grains and solubles.	15530-40	15539	15539
35-124	Ale, beer, stout and porter.	17220	17220	17220
36-125	Grape wines.	17230,50	17230,50	17299s
37-126	Tobacco, processed, but unmanufactured.	18110-18299s	18110-18299s	18005-99s
38-127	Cigarettes.	18350	18350	18350

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
38-128	Tobacco, manufactured, other than cigarettes.	18310-30, 70-99	18325,30,99	18399
39-129	Footwear, rubber and plastic.	79404-90	79040-49	79049
40-130	Tires and tubes, inc- luding rebuilt tires and used tires, for passenger cars.	62102,04; 62204; 62404,10	62105; 62529s; 62549	62005; 62019s; 62025
40-131	Tires and tubes, for trucks and buses.	62108,10; 62208,10	62109;62529s	62009;62029s
40-132	Tires and tubes, for airplanes.	6211s;62212	62149s; 62529s	62019s; 62029s
40-133	Tires and tubes, for tractors and implement.	62115;62215	62115;62529s	62015;62029s
40-134	Tire retreading, tire and tube repair mater- ial and kits, and solid and cushion tires.	32404-12; 62303-90; 94584	32549;62539; 94999s	32049;62039; 96099s
41-135	Rubber compounds and reclaimed rubber.	42260-90	42260,90	42499s
41-136	Rubber belts and belt- ing and rubber coated fabrics and belting.	32104-24; 38732-39	32104,15,19; 38732,36,39	32015,19; 38499s
41-137	Rubber sheeting, shoe stock and findings, and miscellaneous rubber fabricated materials.	32304-16; 32504-52; 49100;49203, 09,12,21,24	32304,13,16; 32509,16,20, 32,36,40,46, 99;49210,21, 40s; 49691	32099s; 49055s; 49099s
41-138	Hose and tubing, mainly rubber.	49304,08,16- 28	49314,16,29, 39s	49060s
41-139	Flooring, tiling, and wall covering, of rubber or plastic.	49432-56	49449s, 85, 89s	49099s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
41-140	Tires and tubes, pneumatic, n.e.s.	62120-90; 62220-90	62120,29s, 49s; 62525	62019s;62029s
41-141	Rubber stationery goods, pressure sens- itive tape, and thermo-fax paper.	90428,44; 91604s	90499s; 91564s	90099s; 91099s
41-142	Rubber waste and scrap.	29185	29185	29185
41-143	Rubber end products, n.e.s.	78682;84383, 85; 96204-90	78685s;84492; 96118,25,29	78069s; 84039s;96082
42-144	Leather.	29160;30110- 30699	29199s;30110- 30699	29160,65; 30012,19,35, 39s,49,99s
43-145	Footwear, other than rubber and plastic.	79110-60; 79300;79810- 30,80-99	79012-39,99	79024-39,99s
44-146	Leather gloves and mittens, excluding athletic and playing equipment.	78680	78680	78067
45-147	Leather belting, shoe stock and findings, and other leather fabricated materials.	30810-99; 49206,15,18, 27-72	30820,99; 49220,40s, 47,72	30039s,99s; 49055s
45-148	Luggage.	86404-90	86404,99	86049
45-149	Leather handbags, billfolds and wallets, coin purses, tobacco pouches, and other leather end products.	78952-64; 86618;86716s; 96104,49	78952,59; 86640s; 86716s; 96104,09	78099s; 86099s; 96080
46-150	Yarn, cotton.	36402,11-67	36402,11-99	36139s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
46-151	Yarns, mixed and blended, containing cotton, wool and man-made fibres, and cotton waste.	24440,90,99; 36701-49	24440,99; 36719,89s	24499;36199s
46-152	Fabrics, broad woven of cotton.	37302-99	37302-98	37730,39
46-153	Tire cord and tire fabrics.	38141-49	38149	38999s
46-154	Nets and netting.	38151-59; 96504-12	38156,59; 96151,59s	38999s;96030 88s
46-155	Bed sheets, crib and non-wool blankets, towels, wash cloths, and dish and scrub cloths.	84630s,40,45; 84810,15,20; 84904	84633s,39s, 45; 84805, 07,10s,39s; 84999s	84065s,69s 89s,99s
47-156	Yarn of wool and hair.	36302-89	36320-90	36119
48-157	Fabrics, broad woven, of wool, hair, and wool mixture.	37202-89; 37702-89	37203-49; 37703-49	37719
48-158	Papermakers' felts.	38171-75	38176	37710
48-159	Woollen blankets.	84630s;96564	84633s,39s; 96154	84065s; 96088s
49-160	Man made fibres.	24602-99	24617-99	24699
49-161	Polyamide resins (nylon).	42314	42349s	42499
49-162	Yarns and mixture yarns, spun or filament, of man-made fibre and glass.	36616-93; 36761-79	36609s,19,39, 99s; 36789s	36159s; 36199s
49-163	Tire yarns.	36803-33	36795	36199s



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
49-164	Fabrics, broad woven, of man-made elastic, paper, and glass fibres and yarns.	37509-99; 37901-29; 38181,89,91	37509-99; 37799; 38189, 91	37759,99s
49-165	Fabrics, broad woven, of man-made fibre mix- ture, and blends.	37809-86	37759-89	37789
49-166	Silk.	24110-40; 36210-49; 37108-49	24340;36259; 37107,49	24349s; 36199s; 37799s
49-167	Rags and waste, of cotton and textile material.	29110,15	29119	29119
50-168	Wool and fine animal hair suitable for spinning.	24213-99	24219-99	24219-99
50-169	Batts, batting and wadding, stuffing and insulation, bonded non-woven fabrics pre- pared of textile fibres.	36011-49; 38101-09; 38943,45	36021,49; 38109; 38999s	38999s
51-170	Thread, of cotton fibres.	36405	36405	36139s
51-171	Thread, of man-made fibres.	36602-12	36609s	36159s
52-172	Yarn and thread, of other vegetable fibres.	36510-49	36505-49	36199s
52-173	Baler and binder twine.	36903,05	36903,05	36903,05
52-174	Other cordage, twine and rope.	36911-99	36914-99	36919,99

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
53-175	Narrow fabrics.	38302-99	38319-99	38429
53-176	Fabrics of lace, bobbinet and net, for apparel.	38603-09,35, 39	38609,39	38469s
53-177	Shoe and similar laces.	78984	78999s	78099s
54-178	Carpet cushion felt.	36123	36089s	38929s
54-179	Felt, n.e.s.	36101-21, 25-49	36089s	38929s
55-180	Carpeting and fabric rugs, mats, runners, floor covering and matting.	84102-90; 84202-90; 84303-39,90	84412-85,99s	84039s
56-181	Textile dyeing and finishing service.	N/A	N/A	N/A
57-182	Fabrics, coated and impregnated, excluding rubber-coated.	38702-29,52- 99	38702-29, 60-95	38495,99s
57-183	Tiling, flooring and wall covering, of linoleum and felt base.	49462-99; 84355,71	49447,49s,87, 89s; 84499s	49099s; 84039s
58-184	Awnings, of cloth and plastic.	74740s	74099s	74099s
58-185	Tents, hammocks, sleeping bags, and sails.	96516-28	96157s	96088s
58-186	Tarpaulins and other covers.	96580,82	96157s,59s	96088s
59-187	Textile containers.	95169,72,75	95075,72	95075
60-188	Vegetable textile fibres n.e.s.	24510-99; 49620,40	24510-99; 49620,40	24530,99; 49099s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
60-189	Fabrics, foam-laminated, quilted, or embroidered, textile belting, not coated, and fabrics of other vegetable fibres.	37411-49; 38111-18,33- 39,61,69; 38613-19	37415,40,49; 38119,61,69, 99; 38619	37799s; 38999s; 38469s
60-190	Miscellaneous textile fabricated materials including wiping rags.	38921,32,34, 81,99;49644	38999s,79; 49699s	38999s; 49099s
60-191	Shades and blinds of coated fabrics.	74748s	74074s	74099s
60-192	Household textiles including bedding, tableware, curtains, bath supplies and miscellaneous furnishings, n.e.s.	74748s; 84501,10; 84601-20,50- 90; 84701,15, 25-35; 84830; 84908-20,90; 86704	74074s;84501, 03,05,10; 84601,50,99; 84711s,15,28, 39; 84839s; 84999s; 86739s	74099s; 84065s,69s, 79s,89s,99s; 86099s
60-193	Other textile end products, including some surgical and medicinal supplies, water life saving equipment and parachutes.	60404; 72304, 08; 78904; 88104-12,20- 90; 88116s; 96532-60,68- 76,86-90	60599s; 72039s; 78902,04; 88010,19s, 12,27s; 96159s	60099s; 77919s; 78099s; 88017s,29; 96088s
61-194	Hosiery.	78501-81; 88540	78522-49; 88054	78055,59; 88069s
62-195	Fabrics, knitted and netted, of elastic.	38511	38511	38449s
62-196	Fabrics, knitted, n.e.s.	38503-05, 12-79	38539,49, 59,99	38449s
62-197	Underwear and sleepwear, knitted.	78151-72,86; 78251-81	78149s,99s	78009s,19s
62-198	Outerwear, knitted.	78401-90; 78651	78465-99; 78651	78045,49,69s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
63-199	Underwear, n.e.s.	78101-41,79, 93,99	78119; 78149s	78009s
63-200	Sleepwear, of woven fabric.	78201-41	78199s	78019s
63-201	Coats and raincoats.	78319,37	78319,36,37	78039s
63-202	Outerwear, n.e.s.	78301-16,22- 34,40-90	78304-14,23- 35,41-99	78022-34,39s
63-203	Headwear, gloves and mittens, excluding knitted, rubber, leather, or fur gloves and mittens.	78601-45,65, 84	78618-49,64, 65,85s,89	78065,69s
63-204	Apparel accessories and other miscellaneous apparel and material for apparel.	38902-14,23- 25; 49604; 78810-90; 78912-48;90	38902,11,19, 99s; 49601, 04; 78876,77, 99; 78921,99s	38999s; 49099s; 78099s,93,94
63-205	Furs, dressed.	31103-99	31039-89	31039-89
63-206	Fur plates, mats and linings.	31300	31099	31099
63-207	Fur goods, apparel including artificial fur.	78710-90	78809	78079
63-208	Custom tailoring.	N/A	N/A	N/A
64-209	Pulpwood chips.	23680,90	23869s	23699
64-210	Lumber and timber, soft, hard and exotic species.	33102-99; 33810-49	33104-95; 33999	33112-95; 33908
64-211	Railway ties.	33309-59	33439	33338,69
64-212	Shingles, lath, pales, blanks for window blind rollers, and spool wool.	33403-50	33409,99s	33403-50



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
64-213	Wood waste.	29171-79	29199s	29199s
64-214	Custom wood working and millwork.	N/A	N/A	N/A
65-215	Veneer and plywood.	33503-94	33513-99	33505-72,79s
66-216	Millwork (woodwork).	33605-99	33609,35,99	33609,99
66-217	Wood fabricated mater- ials for structures.	33959	33999s	33999s
66-218	Prefabricated build- ings and structures of wood.	94110s	94911s	96099s
67-219	Containers, closures and pallets of wood.	95160,63,66	95066	95066
68-220	Caskets, coffins and part and other mort- icians' goods.	94304-12, 20,28	94933,39s	96099s
69-221	Miscellaneous wood fabricated materials.	33460,90-99; 33595; 33710- 99; 33901-49, 75-99	33499s; 33595;33902- 91,99s	33490-99; 33579s; 33904-75,99s
69-222	Barrels and kegs of wood.	95154,57	95055	95055
69-223	Wood end products, n.e.s.	76220s; 76324s; 86110;90276; 96304,90	69899s; 76389s,99s; 90299s,96139	69899s; 77999s; 90029s; 96084
70-224	Household furniture including camp, lawn and veranda furniture.	74103-69; 74304,08	74012-19,32	74019
71-225	Office furniture and visible record equip- ment.	74204-90	74029	74099s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
72-226	Special purpose furniture including church, school, theatre, hotel, laboratory, hospital furniture and restaurant, store and office fixtures.	74312-90; 74400	74038,39,42, 49	74099s
72-227	Miscellaneous furniture and fixtures including picture frames and mouldings, bed and box springs, curtain rods and poles and decorative accessories.	74604,08; 74704-32,56, 90; 86720; 86216	74069,72,76, 99s; 86216; 86720	74009,99s; 86099s
73-228	Portable lamps residential incandescent type, floor and table models, including lamp shades and parts.	68127,30,31, interim,33, 95 interim	68143s	68029s
74-229	Pulp.	34110-99; 34200	34019-95	34019-99
74-230	Newsprint paper.	35109	35199s	35109
74-231	Other paper for printing.	35115-99	35181,84,99s	35115-99
74-232	Fine paper.	35205-99	35233-99	35249,99
74-233	Tissue and sanitary paper.	35305-99	35325-99	35369,99
74-234	Wrapping paper.	35410-99	35440,71,99	35410,39,99
74-235	Paper board.	35602-99	35610-99	35619-99
74-236	Building paper, not coated or impregnated, rigid insulating board and hardboard, and other building board.	35705-19, 60-79	35719,60,79	35749s,57, 60,79

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
74-237	Towels, napkins and toilet paper.	84720; 84801; 84924	84720; 84810s; 84924	84079s, 89s, 95
74-238	Cigarette-paper books and tubes.	86632	86632	86099s
74-239	Vanillin.	40856	40856	40859s
74-240	Miscellaneous industrial materials of paper, chemical by-products, and paper waste.	29130, 40; 35510-80; 35810-49; 39915, 45s; 49409	29139; 35540, 49, 91 35805-49; 39915, 45s, 49409	29130, 40; 35549, 99s; 35849; 39945s, 99s; 49099s
75-241	Building paper, coated or impregnated.	35724-49	35749	35749s
75-242	Tiles and flagstones, of vinyl-asbestos and asphalt.	47942; 49412-16	49440, 44; 47999s	47999s; 49099s
76-243	Paper cartons, bags, cans and bottles, including accessories, and plastic bags.	86716s; 95112, 39-46, 77, 96, 99	86716s; 95040, 44, 49s, 79s, 96, 99s	86099s; 95044, 49s, 99s
77-244	Coated cover paper and bristol board.	35590	35591s	35599s
77-245	Converted paper, gummed, waxed or printed.	35909-99	35911-99	35970, 99
77-246	Converted aluminum foil.	46904	46904	46999s
77-247	Facial tissues, handkerchiefs of paper and sanitary napkins.	36697; 78908; 88116s	36699s; 78999s; 88019s	36199s; 78099s; 88017s
77-248	Paper containers, n.e.s., paper bottle caps, and aluminum foil containers.	95148, 49, 81, 90, 93	95047, 49s, 89s, 99s,	95049s, 99s
77-249	Stationery and paper office supplies.	90104-32, 40, 90; 90424; 91604s, 20	90119, 24, 28, 49; 90423, 24; 91564s, 69s	90014, 19s, 99s; 91099s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
77-250	Paper end products.	85612; 96404-90	85066;96149	85069s;96086
78-251	Newspapers, magazines and periodicals.	89104-89212	89104,08,29	89029
78-252	Books, pamphlets, maps and pictures.	89304-20; 89404-90	89304-49; 89403-90	89039,49
78-253	Banknotes, bonds, bills of exchange, cheques, drafts, stamps and similar matter.	89504	89599s	89099s
78-254	Printing n.e.s.	83404; 89508-90s; 89900s	83701; 89520-99s	83079s; 89090s,99s
78-255	Custom printing and related printing work.	89508-90s; 89900s	89520-99s	89090s,99s
78-256	Net revenue from advertising.	N/A	N/A	N/A
78-257	Specialized publishing service.	N/A	N/A	N/A
79-258	Printing services, mainly printing plates, set type, and book- binding.	52652	52646,50,51, 53,55,59	52960,69s
80-259	Ferro-alloys.	44105-99	44109-99	44109-99
80-260	Pig iron and steel ingots.	44205-59	44219-55	44219-49
80-261	Steel blooms, billets and slabs.	44260-92	44260,90	44299
80-262	Steel castings.	44340-60	44355,59	44359
80-263	Steel bars and rods.	44405-99	44505-99	44530-99
80-264	Steel plates, not fabricated.	44502-16	44502-16,20s	44520s



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
80-265	Carbon steel for pipes and tubes.	44525-27	44524-27	44530s,99s
80-266	Carbon steel sheet and strip, not coated.	44530,39	44532-38	44530s,99s
80-267	Tinplate.	44551,52	44551	44599s
80-268	Galvanized steel sheet and strip.	44555	44555	44599s
80-269	Beams, wide flanged, structural shapes larger than bar size, and bar size shapes of carbon steel.	44610-30	44605-30,75	44699s
80-270	Rails and railway track material, of steel.	44710-90	44739,69,99	44739,99
80-271	Coal tar.	43935,40	43941	43941
80-272	Natural and synthetic graphite and carbon basic products.	47704-32	47714-32	47929,99s
81-273	Mechanical steel tubing.	44826,28	44827-29	44899s
81-274	Oil country goods, inc- luding well casing and well tubing of steel.	44836	44836	44899s
81-275	Line pipe, for trans- mission of natural gas or oil, of steel.	44839	44839	44899s
81-276	Steel pipes and tubes, n.e.s.	44821,22,31, 41-72	44823,31,45, 79,87,88,99s	44899s
82-277	Grinding balls, ingot moulds and stools, and castings, of grey iron alloy and malleable iron.	44302-30	44302-50	44302,29

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
82-278	Pipe and fittings, of cast and wrought iron.	44802-09; 46851-59	44807,99s; 46851-59	44807,99s; 46860
83-279	Nickel in primary forms, including ingots, matte, speiss and oxides.	25520,30; 45404	25899s; 45415s	25520s,30; 45415s
83-280	Copper and copper al- loys, in primary forms, including blister and anode cop- per.	45202,04,74	45204,75s	45204,79s
83-281	Lead and lead alloys in primary forms.	45302,04,06	45309,49s	45309,49s
83-282	Zinc and zinc alloys in primary forms, including zinc dust.	45704,08	45704,10s	45729
83-283	Aluminum and aluminum alloys in primary forms, including pigs, ingots, and shot.	45108	45109s	45109s
83-284	Tin and tin alloys in primary forms, includ- ing anodes.	45604,08	45608	45979s,99s
83-285	Precious metal and alloys, in primary forms, excluding gold, and gold alloys.	45506,10-99	45512-99	45529-99
83-286	Other non-ferrous base metals and all- oys in primary forms.	45905-89	45940-99	45925-45,79s, 99s
83-287	Aluminum fluorides and sodium aluminum fluorides.	40307,09	40499s	40499s
83-288	Inorganic bases and metallic oxides, n.e.s.	40205,09-33, 46,51,61-99	40205,09-31, 61-99	40221,46,99s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
83-289	Scrap and waste materials, n.e.s.	25124-65; 25249; 25320- 90; 25420,30; 25540; 25630, 39,90,99; 25720,30; 25909,37,95, 99; 29155,99	25199; 25249; 25339s; 25878s,99s; 29199s	25165,99; 25249;25320- 90;25410s, 39; 25540; 25639,99; 25710s,39; 25999;29199s
84-290	Aluminum and aluminum alloys, cast, rolled and extruded.	45102,04,10- 40,49	45105,09s, 19-40,49	45109s,29,32, 49s
85-291	Copper products, cast, rolled and extruded.	45208-49	45208-18,99s	45208-18,99s
85-292	Copper alloy products, cast, rolled and extruded.	45278-99	45275s,78,85, 88,99s	45279s,85,88, 99s
86-293	Lead and lead alloy products, cast, rolled and extruded.	45310-49	45349s	45349s
86-294	Nickel and nickel alloy fabricated materials.	45408-99	45415s,69,99	45415s,99
86-295	Tin and tin alloy fabricated materials.	45612,49	45649	45979s,99s
86-296	Zinc die casting and other zinc and zinc alloy fabricated materials.	45712-49	45710s,30-49	45749
86-297	Solders including block, rods, wire, plates and sticks.	46759	46759	46980s
87-298	Plates, steel, fabricated.	44519	44518,19,22	44520s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
87-299	Tanks.	46260-99	46972	46999s
87-300	Power boilers.	50102-45	50119,49	50019
87-301	Boilers, marine type.	59204-08	59299s	59029s
87-302	Package boiler units, under 15 lbs. pres- sure and steam heating boilers, n.e.s.	65102,12	65103s,29s	65049s
88-303	Basic steel products, structural and misc- ellaneous, punched, drilled or otherwise fabricated.	44650-90; 46999	44650,80,90; 46910,63,60, 99	44699s; 46999s
88-304	Scaffolding equip- ment, demountable.	52268	52299s	52929s
88-305	Prefabricated build- ings and structures, metal or mainly metal.	94110s,50	94911s,15	96099s
89-306	Metal fences, doors, windows and structur- al and architectural metal products, n.e.s.	46103-29-98, 99	46113-29,99s	46965s
90-307	Steel sheet and strip coated or fabricated, n.e.s.	44542,59-95	44520s,29,42, 59-99	44599s
90-308	Culvert pipe, of cor- rugated metal.	44811	44811	44899s
90-309	Metal basic products, stamped, pressed, or perforated, and range boilers.	46908,12; 65390s	46908,12,67; 65371s,89s	46999s; 65049s
90-310	Furnace pipes and fit- tings, sheet metal work for buildings and metal weather- strip.	46132-79; 65224	46135-50,73, 99s	46965s; 65049s



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
90-311	Awnings, ash and garbage cans, pails, portable laundry tubs, and wash boilers, of metal.	74740s; 76216, 20s; 86112	69899s; 74099s; 76389s	69899s; 74099s; 77999s
90-312	Utensils for cooking and food preparation, ironing boards, and vacuum bottles and jugs.	85104-24;90; 85208; 86120; 86716s; 94551	69875; 85007, 11,13,19,39s; 86716s; 94958	69899s; 85049s; 86099s; 96099s
90-313	Containers and bottle caps of metal.	95103-09,18- 27,84,87	95005,19,24, 29,89s	95029s,99s
91-314	Wire and wire rope, of steel.	44905-55	44911-69	44920-59
91-315	Wire fencing, screen- ing and netting.	46304-99	46315-99	46341-99
91-316	Chain, excluding automobile tire chains and power transmission chain.	46630-90	46620-99	46999s
91-317	Rods, wire, and elect- rodes for welding.	46703-39	46710-39	46980s
91-318	Springs, coil and flat, for upholstery and miscellaneous vehicles.	46940-59; 61192,93	46952,59; 61199s	46999s; 61199s
91-319	Bolts, nuts, screws, washers, wire nails, cut nails, tacks, staples and rivets.	46502-49,99s	46502-49,99s	46529,36,99s
91-320	Fasteners, clips, thumbtacks, staples and paper fastener washers.	90420	90499s	90099s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
91-321	Household equipment, mainly wire fabric- ated.	85204; 86732- 90	85024; 86732, 39s,92,99	85049s; 86099s
91-322	Display stands.	94216	94929s	96099s
92-323	Builders' hardware.	46553-69	46553-69	46559,99s
92-324	Fittings for furnit- ure, cabinets, and caskets.	46578,81	46582	46599s
92-325	Basic hardware,n.e.s.	46572,84,87, 99s	46599s	46599s
92-326	Cutting and forming tools for metal work- ing machinery and metal working accessories.	52371-96	52377-96	52399s
92-327	Band and circular sawing machines and blades.	52406-12	52425s	52945s
92-328	Edge tools, hand.	75204-90	75204-99	75020-29
92-329	Mechanics' measuring tools.	75404-90	75408-49	75059s
92-330	Hand tools, n.e.s.	75304-48;75590	75510-95	75035,59s
92-331	Scissors, shears, and miscellaneous indust- rial cutlery.	75604-16; 75804-12,24, 90; 85620; 86219	75817s,22,23, 65,66,99; 85069; 86219	75085s,99; 85069s; 86099s
92-332	Safety razors and blades.	75816,20	75817s,20	75085s
92-333	Domestic equipment, n.e.s.	76308,90; 86116,90	69899s;76308; 76399s	69899s; 77945s,99s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
93-334	Heating equipment, hot water and steam, excluding package unit boilers and steel heating boilers.	65106,22-90	65103s,29s, 49,99	65049s
93-335	Heating equipment, warm air, excluding pipes and forced air circulation units.	65204-16,28, 90	65212,15,49s	65049s
93-336	Unit heaters and water tank heaters, non-electric.	65334-52	65339,71s	65049s
93-337	Fuel burning equipment.	65404-90	65430-49	65049s
93-338	Commercial appliances for cooking and warming food, electric and non-electric.	66128,32,36; 66220-90	66189s,99s; 66289s,99s	66019s,99s
94-339	Custom metal working.	N/A	N/A	N/A
95-340	Forgings of carbon and alloy steel.	44370-94	55399	44399
95-341	Powder metallurgy products.	46991 interim	N/A	N/A
95-342	Valves.	46805-49	46809-48	46819,49
95-343	Pipe fittings, not of iron and steel, hose couplings and fittings, plumbing equipment, of metal and enamelled metal, and other plumbers' brass goods.	46861-90; 49340; 67104- 46,49,54,56, 59,74,76,90; 67204-32,95	46879,99; 49340; 67109, 29,60s,73s, 99s; 67219, 99s	46899;49060s; 77909s
95-344	Gas meters and water meters.	70342,43	70342,44s,95s	70099s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
95-345	Fire fighting equipment, traffic control equipment and safes and vaults.	72404-90; 72504,20-90; 74504,08	72044,49; 54,59s; 74059	74099s; 77919s
95-346	Taxi meters, parking meters, tackle blocks and metal ladders.	76312,16,24s, 28	76399s	77999s
95-347	Firearms and military hardware.	93101-51; 93205-95; 93310-90	93001-16,99s	93015,99s
95-348	Kitchen appliances, hand operated, and fireplace fixtures.	85404-90; 86724	85044-49; 86724	85049s; 86099s
95-349	Collapsible tubes, metal.	95115	95015	95029s
96-350	Tractors, farm and garden type.	55104-90	55103-99	55119-99
96-351	Other agricultural machinery.	54102-54690; 54700 interim	54109-54699	54109-54999
97-352	Mechanical power transmission equipment and bearings.	46610; 50492- 90	46605,09; 50401-99	46999s; 50045,49
97-353	Engines, marine and general purpose, steam, gasoline, diesel and semi-diesel, and turbines, marine and hydraulic.	50202,04,10-30, 80,90; 59212-90	50209s,18-29, 39s,99s; 59227-55,99s	50025s,29s; 59029s
97-354	Pumps, compressors (air and gas), blowers, and vacuum pumps.	50704-69; 50804-95	50733-99; 50804-95	50079,89
97-355	Conveyors, escalators, elevators and hoisting machinery, general purpose.	51104-90; 51204-12; 51304-90	51019-39	51019,39,99s



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
97-356	Industrial trucks, tractors, trailers and stackers, power and hand driven.	51402-30; 51902-90	51042-99	51049,99s
97-357	Fans, air circulators, and forced air units, household and commercial.	65220; 69604-39	65249s; 69762,69	65049s; 69999s
97-358	Packaging machinery, lubrication equipment, and other miscellaneous, general purpose industrial machinery.	50904-90; 69214,28,32; 73704,90	50904-40,79- 99; 69215s, 29s,32;73099s	50093,99; 69999s; 77919s,29s
97-359	Industrial furnaces, kilns and ovens.	50504-90	50509-95	50059
97-360	Machinery, industry-specific and special purpose.	50232; 50612- 89; 52204-64, 90, 52301-39; 52402,04,16-90; 52504-60; 52604-44,56; 52704-52990; 72602-73300; 73504,16,90; 73608-90	50239s; 50969;52101- 99; 52204-52, 99s;52301-69; 52414,15,25s, 48-99; 52515- 90; 52604-45, 48,57,69; 52706-52999; 72069; 73019, 29,59s,63-99	50025s,69; 52119-99; 52308-29,99s; 52929s,41, 45s,49,59, 69s,79-99; 77919s,29s
97-361	Power driven hand tools.	75102-90	75102-98	75019
97-362	Metal end products, n.e.s.	96604-90	96168,69	96090
98-363	Refrigeration and air conditioning equipment, excluding household refrigerators, freezers and combinations.	65503-29, 49-95	65506-28, 54-90,99s	65069s,99

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
99-364	Scales and balances.	70804-90	70982,89, 93s,96s,98s, 99s	70079s,99s
99-365	Vending machines.	73404-90	73040-49	77929s
99-366	Office machines and equipment.	77104-90	77104-99	77108-99
99-367	Rental of data pro- cessing equipment.	N/A	N/A	N/A
100-368	Aircraft, all types.	60102-42	60151-59	60019
100-369	Aircraft engines.	60304-24	60329-49	60039
100-370	Specialized aircraft equipment.	60202-80; 60408-95	60599s	60099s
100-371	Modifications, con- versions, servicing, overhaul, and repairs to aircraft and engines.	N/A	N/A	N/A
101-372	Passenger automobiles and chassis.	58104-42	58104-49	58017,19
101-373	Trucks, truck chassis and truck tractors, commercial.	58304-32	58304-38	58031,39
101-374	Buses and chassis.	58204-20	58729	58095s
101-375	Military motor vehic- les, motorcycles, and special purpose motor vehicles.	58703-83,90s 58604-36; 58905-95	58739;99s	58095s
102-376	Trailers, cabin or house type.	58454	58454	58049s
102-377	Other trailers and semi-trailers, com- mercial.	58410-49,90	58447,48,99	58049s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
102-378	Bodies and cabs for trucks.	58504-90	58909	58099s
103-379	Motor vehicle engines and parts.	58804-49	58804-49	58085
103-380	Auxiliary electric equipment for internal combustion engines.	68904-90	68908-95	68099,95
103-381	Motor vehicle accessories, parts and assemblies.	58852-95	58919-90,99s	58099s
103-382	Automotive hardware, excluding springs.	46575	46575	46599s
104-383	Locomotives, cars and tenders, railway service.	57104-53; 57504-52	57119,57,58, 57519-59	57029s; 57099s
104-384	Industrial locomotives and self-propelled industrial and commercial cars.	57204-12; 57304-12; 57404-12;	57129; 57509	57029s; 57099s
104-385	Parts and accessories for railway rolling stock.	57604-32	57628,99	57099s
105-386	Ships and boats, military and commercial.	59109-54,90s	59199s	59019s
105-387	Sub-assemblies, parts, attachments and accessories for ships and boats.	59300	59339,09	59039
105-388	Ship repair.	N/A	N/A	N/A
106-389	Snowmobiles and miscellaneous non-motor vehicles.	58790s;61124-90; 86304,08	58799s; 61187,99s; 86790	58095s; 61128,99s; 86099s
106-390	Pleasure and sporting craft.	59158-66,90s	59158,69,99s	59015,17,19s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
107-391	Small electrical appliances, domestic, including water tank heaters, flat irons, hair dryers and clippers, vacuum cleaners, floor polishers and sanders, hot plates, electric blankets and razors.	65332,33,56-68,90s,95s; 66116-24,40-95; 69104-12; 69204-12,16-24,49; 69424-32; 69708-90; 73508,12	65331,69; 66159,89s,95,99s; 69209, 15s,19,29s; 69704,19,71, 72,99;69835; 73059	65049s; 66019s; 69899s; 77929s
108-392	Space heaters, heating stoves, and base board electric heating units.	65304-24,90s,95s	65324,29,53,71s,89s,92-99	65049s
108-393	Refrigerators, freezers and combinations, domestic.	65541-47	65541-46,99s	65069s
108-394	Gas ranges and electric stoves, domestic.	66104-12; 66204-16; 66300	66115,89s,99s; 66211,19,89s, 99s	66019s,99s
108-395	Sewing machines, dishwashers, garbage disposal units, laundry equipment, and power lawnmowers, domestic.	69404-20,90; 69504,08; 76304; 86104-08,24; 86204-12	69754,58; 69805-29,56, 99s; 76303, 06;86209,12	69809,19, 99s; 69999s; 77945s; 86099s
109-396	Television and radio receiving sets and combination.	63333-69,74-83,99s	63699s; 63936,37	63035,39s
109-397	Record players, amplifiers, tape recorders, and other sound recording and reproducing equipment.	63604-32,90	63603-25,88, 89,99s	63060,69s
110-398	Telephone and telegraph line apparatus and equipment.	63109-39; 63204-90	63919,29	63019,29



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
110-399	Radio and television broadcasting and transmitting equipment and other related services.	63309,19,71, 72,85,96,99s	63699s	63039s
110-400	Radar equipment and related devices.	63404-90	63949	63049
110-401	Electronic tubes and semi-conductors, excluding X-Ray tubes and fluorescent lamps.	63504-49	63519-49	63059
110-402	Electronic equipment components.	63704-95	63972-99	63099
110-403	Interior signal, alarm and clock systems and complete installation.	72508,12,16	72059s	77919s
111-404	Pole line hardware.	49516	49516	49070s
111-405	Welding machinery and equipment.	52341-49	52345,49	52399s
111-406	Motors and generators, electric and turbines, steam and gas.	50206,40; 50301-79	50209s,99s; 50309-79	50029s,33-39
111-407	Transformers and converters, excluding telephone and tele- graph.	68303-95; 68771-95	68326,79,95; 68879	68039,79
111-408	Electrical equipment, industrial, n.e.s.	68402-08,24- 36,81,90; 68502-90; 70204-18,90	68423,29s, 49s,81,99s; 68859; 70927s,28s	68049s,59; 70029s
112-409	Batteries.	69304-95	69329-95	69935,39
113-410	Wire and cable, insulated.	46404-99	46975	46975

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
113-411	Wire and cable, of aluminum, not insulated.	45144,46	45147	45149s
114-412	Enclosed safety switches and circuit breakers, fuses and cut outs, plugs, cords and other wiring devices, industrial and residential.	49520-99; 68412,18,37- 41; 68602-70	49542-99; 68429s,49s, 99s;68869	49070s; 68049s,69
114-413	Electric light bulbs and tubes, including photo.	68202-90; 91908-10	68202-90 91908,10	68029s; 91099s
114-414	Electric lighting fixtures, fluorescent and incandescent, and portable lamps, exclud- ing residential incandescent.	68104-24,42- 90	68119,43s, 63-99	68029s
115-415	Cement.	47504-12	47503-12	47504,99s
116-416	Lime.	47972,75	47976	47976
117-417	Plasters and other gypsum basic products.	47903-21	47907,22	47999s
118-418	Concrete basic products.	47520-99	47599s	47599s
118-419	Sand lime bricks and blocks.	47978,81,84	47999s	47999s
119-420	Ready-mix concrete.	47516	47599s	47599s
120-421	Bricks and tiles,clay.	47204-49	47202-49	47204,49,62s, 99s
120-422	Insulators and elect- rical fittings, of porcelain.	49504-12	49505,09	49067,70s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
120-423	Plumbing equipment, of vitreous china, and tableware and houseware of china or porcelain.	47963,66; 67148,52,58, 62,72; 67290; 85304,08; 85604,08; 86728	47966,99s; 67199s,60s,68, 73s; 67299s; 85034; 85061, 62; 86728	47999s; 77909s; 85049s; 85069s; 86099s
121-424	Refractories.	47253-99	47251-99	47262s,99s
122-425	Natural stone basic products, chiefly structural.	47104-49	47104-49	47919
122-426	Stone, clay and concrete end products, n.e.s.	96804-90	96189	96094
123-427	Mineral wool and thermal insulation materials, n.e.s.	47945,48	47945,99s	47999s
124-428	Asbestos basic products.	47404-44, 66-99	47420-40, 69s,99s	47440,69s, 99s
124-429	Asbestos-cement products.	47448-64	47454,56,69s, 99s	47469s,99s
125-430	Plate, sheet, structural and ornamental glass.	47303-38	47303-35,99s	47305,99s
125-431	Glass wool, glass tubing, and other fabricated glass shapes.	47353-99	47353-91,99s	47399s
125-432	Glass containers.	95130-36	95032,36	95036
125-433	Tableware and houseware of glass, and glass end products, n.e.s.	85126; 85610; 86730; 95204, 08; 96704-90	85015,63,64; 86730; 96174, 79	85049s,69s; 86099s; 96092
126-434	Abrasive basic products.	47604-99	47609-99	47619-99

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
127-435	Non-metallic mineral basic products, n.e.s.	47924-36,39, 51-60,69,99	47933,36,39, 69,99s	47936,99s
128-436	Aviation gasoline.	43109	43109	43199s
128-437	Motor gasoline.	43149	43149	43199s
128-438	Fuel oil.	43209-99	43209-59	43249-69
128-439	Lubricating oils and greases.	43305-49	43329,49	43349
128-440	Benzene, toluene and xylene.	40621-23	40621-23	41419s
128-441	Butane, propane, and other liquefied pet- roleum gasses.	43620-49	43965,99s	43649
128-442	Naphtha.	43920	43920	43999s
128-443	Asphalt.	43907	43909s	43999s
128-444	Petroleum wax and jelly.	43945-59,99s	43945-59,99s	43999s
129-445	Coal oils, creosote, briquettes, and other coal products, n.e.s.	26170,80; 43905,09,25- 29,99s	26189; 43909s, 29,99s	26189; 43999s
130-446	Explosives, fuses and caps.	41509-65	41509,30,69	42999s
130-447	Ammunition, non- military.	93190	93019	93019
130-448	Ammunition and ord- nance, military.	93405-95	93099s	93099s
130-449	Pyrotechnic articles and fireworks.	94548	94956	96099s
131-450	Fertilizers and fert- ilizer materials, n.e.s.	41610-29, 33,52-89	41623,26, 33,52-89,99s	41606,09,45s, 47s,89,99



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
132-451	Plastic resins and plastic materials, not shaped.	42302-12,16-99	42302-40,49s, 52-99	42418,99s
132-452	Film and sheet, of cellulosic plastic.	42503	42453,54, 72,79	42509s
132-453	Ethanolamines.	41131-33	41134	41459s
132-454	Ethylene glycol, mono.	40761	40761	41429s
133-455	Medicinal and pharmaceutical products.	87110-87999	87120-87999	87019-99
134-456	Paints and related products.	42805-89	42816-99	42835-99
135-457	Vegetable oils, other than corn oil, refined.	39304,08,12,16,24,28,32,36,40,44,48,52,56,60,64,84,88,99	39308s,12s,16s,24s,36s,40s,44s,48s,52s,60s,85s,99s	39328s,56s,60s,99s
135-458	Glycerin, refined.	42949	42947s,49	42999s
135-459	Dentifrices, all kinds.	80500	80049s	80059s
135-460	Soap and detergents.	80604-93	80061-68	80069
135-461	Cleaning and scouring powders, pastes and cakes, and other washing and cleansing preparations.	80704,08	80073	80099s
135-462	Javel water.	80832	80089s	80099s
136-463	Toilet preparations and cosmetics.	80104-80490	80019,49s	80059s
137-464	Chlorine.	40003	40003	40003

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
137-465	Oxygen.	40035	40099s	40099s
137-466	Phosphorus.	40043	40099s	40099s
137-467	Chemical elements, n.e.s.	40005-11,31- 33,37-41,46- 99	40008,51, 81,99s	40037,61,99s
137-468	Sulphuric acid.	40115	40115	40115
137-469	Carbon dioxide (gas and dry ice).	40151,52	40199s	40199s
137-470	Boric acid.	40131	40131	40199s
137-471	Inorganic acids and oxygen compounds of non-metals or metal- loids.	40103-11, 17-29,35-45, 62,99	40162,99s	40127,99s
137-472	Ammonia, anhydrous and aqua.	40201,02	40202	40299s
137-473	Caustic soda (sodium hydroxide), dry.	40206	40206	40299s
137-474	Calcium chloride.	40322	40322	40499s
137-475	Sodium chlorate.	40341	40499s	40499s
137-476	Aluminum sulphate.	40373	40373	40499s
137-477	Sodium tripoly phos- phate.	40398	40399s	40499s
137-478	Sodium phosphates, other.	40393-97,99	40395,99s	40499s
137-479	Sodium carbonate (soda ash).	40416	40416	40499s
137-480	Sodium cyanide.	40441	40441	40499s
137-481	Sodium silicate.	40451-54	40450	40499s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
137-482	Metallic salts and pero- xysalts of inorganic acids, n.e.s.	40303,11,21, 24-38,43-71, 75-90; 40403-15,17- 28,32,42-47, 55-99	40328-71,79- 88,99s; 40401, 06,17-27,45, 56-66,99s	40462,99s
137-483	Inorganic chemicals, n.e.s.	40503-19, 31-99	40508,45, 99,32s	40535s,99
137-484	Ethylene.	40605	40699s	41419s
137-485	Butylenes.	40607	40607	41419s
137-486	Butadiene.	40609	40609	41419s
137-487	Acetylene.	40611	40699s	41419s
137-488	Styrene monomer.	40629	40699s	41419s
137-489	Carbon tetrachloride.	40649	40699s	41419s
137-490	Vinylchloride monomer.	40651	40699s	41419s
137-491	Trichloroethylene.	40653	40653	41419s
137-492	Perchloroethylene.	40655	40699s	41419s
137-493	Chlorofluorohydro- carbons, n.e.s.	40659	40659	41419s
137-494	Hydrocarbons and their derivatives, (halogen- ated, suphonated, nitrated, or nitrosated), n.e.s.	40606,13,25, 31-47,61-99	40613,31-42, 64-91,99s	41419s
137-495	Methyl alcohol.	40705	40705	41429s
137-496	Propyl and isopropyl alcohols.	40711,13	40799s	41429s
137-497	Butyl and isobutyl alcohols.	40721,23	40721,99s	41429s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
137-498	Pentaerythritol.	40771	40799s	41429s
137-499	Alcohols and their derivatives, (helog-enated, sulphonated, nitrated, or nitrosated), n.e.s.	40731-56, 63,73-99	40763,65,78, 80,99s	41429s
137-500	Phenol.	40802	40802	40840s
137-501	Phenols, phenol alcohols, and their derivatives, n.e.s.	40803-19	40803,04, 11,15,18,19	40840s
137-502	Ethers, alcohol peroxides, ether peroxides, epoxides, acetals, hemiacetals, and derivatives.	40823-39	40839	40840s
137-503	Formaldehyde.	40842	40845s	40859s
137-504	Acetone.	40873	40889s	40889s
137-505	Methyl-ethyl and methyl-isobutyl ketone.	40875,79	40875,89s	40889s
137-506	Aldehyde-function, ketone-function, and guinone-function compounds, n.e.s.	40844-54,59; 40883-89	40845s,59,89s	40859s,89s
137-507	Acetic acid.	40904	40999s	41449s
137-508	Acetic anhydride.	40928	40999s	41449s
137-509	Stearic acid.	40942	40942	41449s
137-510	Adipic acid.	40964	40999s	41449s
137-511	Phthalates.	40974-79	40979	41449s
137-512	Citric acid.	40987	40999s	41449s



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
137-513	Organic acids, their anhydrides, nolidés, peroxide, peracids, and derivatives.	40902,06-22, 32-34, 44-62, 65-71, 81-86, 88-99	40902,32, 50- 65,75,82-94, 99s	41449s
137-514	Hexamethylenediamine.	41129	41129	41459s
137-515	Sodium glutamate, mono.	41145	41145	41459s
137-516	Guanidines.	41161	41199s	41459s
137-517	Organo-inorganic com- pounds, heterocyclic compounds and inorg- anic esters.	41204-99	41204-99	41479
137-518	Organic chemicals, n.e.s.	41302-99	41312-99	41499
137-519	Titanium dioxide.	40248; 42772	40248;4277s	40299s; 42799s
137-520	Black, acetylene and carbon.	40021-27	40025	40099s
137-521	Pigments, lakes and toners, proper.	42702-62, 75-99	42709-62, 75-99	42799s
137-522	Pigments, lakes and toners, n.e.s.	40241-44,55, 57; 40431	40240,57; 40499s	40240,99s; 40499s
137-523	Urea, calcium cyanide, ammonium nitrate, am- monium phosphates, ammonium sulphate, and nitrogen phosphate fertilizers, n.e.s.	41631,37-48	41631,39, 48,99s	41645s,47s, 48
137-524	Synthetic rubber.	42210-50	42210,50	42499s
137-525	Antifreeze compounds.	42906	42911s	42999s
137-526	Additives for mineral oils, n.e.s.	42902,08	42907,08,99s	42999s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
137-527	Glycerine, crude.	42948	42947s,48	42999s
137-528	Rubber and plastics compounding agents.	42972	42972	42999s
138 529	Crude vegetable mat- erials and extracts including turpentine, resins, rosins, bark and herbs.	21410-90; 21710-99; 21905-19,45- 99; 39905,10, 20-40,45s, 50-99	21703-99; 21945-75,99s; 39905-10,20, 35,45s,99	21430,99; 21799; 21939s,99s; 39945s,99s
138-530	Phthalic anhydride.	40972	40972	41449s
138-531	Crop and seed treat- ments.	41703-79	41830-79	41899s
138-532	Herbicides.	41781-99	41882-89	41899s
138-533	Insecticides and rod- enticides, n.e.s.	41903-79	41899	41899s
138-534	Adhesives.	42105-99	42119-99	42119,99
138-535	Automotive chemicals, excluding antifreeze.	42910	42911s	42999s
138-536	Anti-acid additives for cements.	42905	42999s	42999s
138-537	Boiler chemicals.	42912	42999s	42999s
138-538	Compound catalysts.	42922	42922	42999s
138-539	Metal working compounds.	42952	42952	42999s
138-540	Printing ink.	42966	42966	42999s
138-541	Rotogravure ink.	42968	42968	42999s
138-542	Textile specialty chemicals.	42982	42982	42999s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
138-543	Industrial chemicals and preparations, n.e.s.	42914-16,23-46,62,63,76-79,84-99	42915,17,32-46,79,95,99s	42999s
138-544	Polishes, waxes, compounds and related preparations.	80712-42	80077,79	80099s
138-545	Other household chemical specialties.	80820,24,40,50,90	80089s	80099s
138-546	Waxes, animal and vegetable, other.	39410,15,20,49	39415,49s	39849s
138-547	Essential oils, natural or synthetic.	39705-49	39716-49	39879
138-548	Tanning materials and dyestuffs.	39605-99; 42605-99	39610-99; 42605-99	39999s, 42799s
138-549	Mixtures and residues of oils, fats, waxes, crude fatty acids and alcohols.	39580,99	39599s	39859s
138-550	Photographic chemicals, prepared and packaged.	91700	91979	91099s
138-551	Embalming chemicals and preparations.	94316	94939s	96099s
138-552	Matches.	86604,08	86604,08	86099s
139-553	Aircraft and nautical instruments and apparatus.	70104-90	70919	70099s
139-554	Laboratory and scientific apparatus and instruments including x-ray equipment and radio-active material.	40521,29; 70222; 70404-70590; 70904-71151; 90264-72	40521,32s; 70909,27s,28s, 49,50,52,54s, 58,93s,96s; 70998s,99s; 90273	40535s; 70009,29s, 79s,99s; 90029s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
139-555	Miscellaneous measuring and controlling instruments including thermometers, thermostats and barometers.	70304-40,44-56,60,62,90	70325,28,44s,48,62,90,95s	70099s
139-556	Medical and related instruments, apparatus and supplies.	70604-70720; 79870; 88204-16,90; 88304-88400; 88504-36,42-90	70613-70729; 70954s; 79099s; 88024,27s,34-49,52,59	70069,79s; 79099s; 88035,39, 69s,29s
139-557	Industrial, military and civil defence safety equipment.	72108; 72204,90	72039s	77919s
139-558	Watches, clocks, chronometers, including parts and movements.	82104-82400	82007-89	82019,29,99
139-559	Photographic equipment and supplies, including film.	91104-91532; 91804-90; 91904,90	91111-49; 91204-19; 91513-39,69s; 91813,39; 91939-49,99	91019-89,99s
140-560	Jewelry, jewelry findings, dental metal and gem ornamental stones.	47804-24; 81104-81320; 81900; 88220	47804,25; 81017-33; 88027s	47985,89; 81029;88029s
140-561	Silverware and plated ware, kitchen and table cutlery, and metal flat ware.	81404-90; 85504-16,90s	81049;85052, 59s	81049; 85059s
141-562	Brooms, brushes, mops and other non-electric cleaning equipment and toilet brushes.	76104-90; 76204,08,12, 90; 86504-20	76113,24,49; 76389s; 86504,20	77935,39; 86099s
142-563	Venetian blinds and shades and blinds of bamboo and wood.	74744,48s	74074s	74099s



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
143-564	Plastic film and sheet, n.e.s. and other basic shapes and forms of plastics.	42504-99	42416-29,77, 99; 42512-99	42509s,99
143-565	Plastic containers, n.e.s. and plastic bottle caps.	95178,79,88; 95212,90	95078,79s, 88,99s	95099s
143-566	Prefabricated buildings and structures, of plastic.	94110s	94911s	96099s
143-567	Plastic hose, pails, tablecloths, and plastic end products, n.e.s.	49312,32; 67164; 76220s; 84710; 85590s; 85616; 86532, 40; 86712,16s; 86528; 96900	49339s; 67164; 76389s; 84711s; 85059s; 85068; 86532, 49;86712,16s; 96199	49060s; 77909s,99s; 84079s; 85059s; 85069s; 86099s; 96096
144-568	Bicycles, children's vehicles and parts.	61108-20; 83604-90	61108,16,20; 83792,99	61199s; 83079s
144-569	Sporting equipment, fishing and hunting equipment, and play- ground and shooting gallery equipment.	83102-16; 83201-90; 83304-1a	83215-99	83023-35, 99
144-570	Toys and game sets.	83408-83590	83709-89	83055,79s
145-571	Fur dressing and dyeing services.	N/A	N/A	N/A
146-572	Signs and advertising displays.	94204-12,20,90	94929s,28	96099s
146-573	Custom work,miscel- laneous.	N/A	N/A	N/A
147-574	Ice.	27820	27999s	27995s

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
147-575	Animal hair not suitable for spinning, feathers, quills, bristles and human hair.	20510-80; 24310-30	20529,49; 24310,20,30	20529,49; 24320,49s
147-576	Miscellaneous fabricated materials, including bristles, button and buckle blanks, gaskets and basic jewelry parts.	46916-28; 49608-16,28- 36,52,99	46920,28s,99s; 49615,32,60, 99s	46999s; 49099s
147-577	Office, desk and writing equipment including carbon paper, stamp and stamp pads, stencils, typewriter ribbon, pens and pencils.	90136;90204- 60,80-92; 90304-44; 90416,32-40,98	90136; 90204- 80,99s; 90432,89,99s	90019s,23, 24,29s,99s
147-578	Inks and ink eradicators, office mucilage and library paste.	90404-12	90404,99s	90099s
147-579	Buttons, needles, pins and miscellaneous notions.	86536; 94403-90	86536; 94418-99	86099s; 96005
147-580	Phonograph records, musical instruments, artist materials, umbrellas and smokers' supplies.	63680; 78972, 76,80; 86612, 16,20,22-28, 36,40; 92104- 90; 90504-90	63680; 78975, 99s; 86626, 27,40s; 90504- 49; 92124-99	63069s; 78099s; 86099s; 90099s; 92135,49,99
147-581	Household ornamental objects and works of art.	94503-47,54- 81,90; 94604- 40	94604-40; 94952,54,66- 95,99s	96010-25,99s
148-582	Construction.	N/A	N/A	N/A
149-583	Air transportation.	N/A	N/A	N/A
150-584	Other transportation.	N/A	N/A	N/A

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
150-585	Services incidental to transportation, n.e.s.	N/A	N/A	N/A
151-586	Water transportation.	N/A	N/A	N/A
151-587	Services incidental to water transportation.	N/A	N/A	N/A
152-588	Railway transportation.	N/A	N/A	N/A
153-589	Truck transportation.	N/A	N/A	N/A
154-590	Bus transportation, interurban and rural.	N/A	N/A	N/A
155-591	Urban transit.	N/A	N/A	N/A
156-592	Taxicab transportation.	N/A	N/A	N/A
157-593	Pipeline transport- ation.	N/A	N/A	N/A
158-594	Highway and bridge maintenance.	N/A	N/A	N/A
159-595	Storage.	N/A	N/A	N/A
160-596	Radio and television broadcasting.	N/A	N/A	N/A
161-597	Telephone and tele- graph communication.	N/A	N/A	N/A
162-598	Postal services.	N/A	N/A	N/A
163-599	Electric power.	49704	49697	49075
164-600	Gas distribution.	N/A	N/A	N/A
164-601	Coke.	43519-49	43530,49	43530,49
165-602	Water and other utilities.	N/A	N/A	N/A
166-603	Wholesaling service.	N/A	N/A	N/A

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
166-604	Repair and service provided by wholesale establishments.	N/A	N/A	N/A
166-605	Rental of office equipment.	N/A	N/A	N/A
167-606	Retailing service.	N/A	N/A	N/A
167-607	Repair and service provided by retail establishments, including auto repair.	N/A	N/A	N/A
168-608	Real estate (non-rental) and financial services.	N/A	N/A	N/A
168-609	Insurance.	N/A	N/A	N/A
168-610	Rent of land, buildings and other durable structures.	N/A	N/A	N/A
168-611	Royalties.	N/A	N/A	N/A
169-612	Education and related services.	N/A	N/A	N/A
170-613	Hospital services.	N/A	N/A	N/A
171-614	Health services.	N/A	N/A	N/A
173-615	Motion picture entertainment.	N/A	N/A	N/A
174-616	Other recreational services.	N/A	N/A	N/A
175-617	Services to business management.	N/A	N/A	N/A
176-618	Advertising services.	N/A	N/A	N/A



Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
177-619	Laundry, cleaning and pressing services.	N/A	N/A	N/A
178-620	Accommodation services.	N/A	N/A	N/A
178-621	Meals.	N/A	N/A	N/A
178-622	Service margin on alcoholic beverages.	N/A	N/A	N/A
179-623	Personal services.	N/A	N/A	N/A
180-624	Photographic services.	N/A	N/A	N/A
181-625	Miscellaneous repair services, excluding repair to buildings and dwellings.	N/A	N/A	N/A
181-626	Services to buildings and dwellings.	N/A	N/A	N/A
182-627	Other services to busi- ness and persons.	N/A	N/A	N/A
182-628	Rental of automobiles and trucks.	N/A	N/A	N/A
182-629	Trade association dues.	N/A	N/A	N/A
182-630	Rental of all other machinery and equipment including construction machinery.	N/A	N/A	N/A
183-631	Spare parts and maint- enance supplies for machinery and equipment.	N/A	N/A	N/A
184-632	Office supplies.	N/A	N/A	N/A
185-633	Cafeteria supplies.	N/A	N/A	N/A
186-634	Cleaning, safety, medical and miscellaneous building maintenance sup.	N/A	N/A	N/A

Input-Output Commodity Classif. No.	Input-Output Commodity Title	Standard Commodity Classif.	Import Commodity Classif.	Export Commodity Classif.
187-635	Laboratory equipment and supplies.	N/A	N/A	N/A
188-636	Travelling and enter- tainment.	N/A	N/A	N/A
190-637	Advertising.	N/A	N/A	N/A
191-638	Purchased repair serv- ices for machinery and equipment.	N/A	N/A	N/A

Specified Non-Competitive Commodities (Imported)

000-639	Cotton, raw and semi- processed.	24410-30	24410,30	24439
000-640	Rubber, natural, latex and crude and rubber allied gums.	21610-40	21610,20,49	21649
000-641	Cane sugar, raw.	10119	10115,19	10150s
000-642	Cocoa beans, un- roated.	11110	11110	
000-643	Green coffee.	11210	11210	
000-644	Tropical fruit.	07109,15,21- 27,39,48	07109,15,24, 39,48,59s	07159s

CLASSIFICATION OF 40 INPUT-OUTPUT COMMODITY GROUPS

IOCC-S

COMMODITY TITLES AND DEFINITIONS

<u>Input-Output 40 Commodity Classification No.</u>	<u>Input-Output 40 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
1-001	Live animals	1-001, 1-002, 1-003, 1-004, 1-005, 1-006
1-002	Grain	1-007, 1-008, 1-009
1-003	Fish and fur	3-030, 3-031
1-004	Forestry products	2-025, 2-026, 2-027, 2-028, 2-029
1-005	Other agricultural products	1-010, 1-011, 1-012, 1-013, 1-014, 1-015, 1-016, 1-017, 1-018, 1-019, 1-020, 1-021, 1-022, 1-023, 1-024
2-006	Metallic ores and concentrates	4-032, 6-033, 7-034, 8-035, 8-036
2-007	Non-metallic minerals	12-042, 13-043, 14-044, 15-045, 15-046, 15-047, 15-048, 16-049, 16-050
3-008	Coal	9-037
3-009	Oil, gas and services incidental to mining	10-038, 10-039, 10-040, 10-041, 17-051
4-010	Meat, fish and dairy products	18-052, 18-053, 18-054, 18-055, 18-056, 18-057, 18-058, 18-059, 18-060, 18-061, 18-062, 18-063, 18-064, 19-065, 19-066, 20-067, 20-068, 20-069, 20-070, 20-071, 20-072, 20-073, 21-074, 21-075

<u>Input-Output 40 Commodity Classification No.</u>	<u>Input-Output 40 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
4-011	Fruit, vegetable, feed and miscellaneous food products	22-076, 23-077, 23-078, 23-079, 23-080, 23-081, 23-082, 23-083, 23-084, 23-085, 23-086, 24-087, 24-088, 24-089, 24-090, 24-091, 25-092, 25-093, 25-094, 26-095, 27-096, 28-097, 28-098, 29-099, 29-100, 29-101, 29-102, 30-103, 30-104, 30-105, 31-106, 31-107, 31-108, 31-109, 32-110, 32-111, 32-112, 32-113, 32-114, 32-115, 32-116, 32-117
4-012	Beverages	33-118, 33-119, 34-120, 34-121, 34-122, 34-123, 35-124, 36-125
4-013	Tobacco and tobacco products	37-126, 38-127, 38-128
5-014	Leather and textile products	42-144, 43-145, 44-146, 45-147, 45-148, 45-149, 46-150, 46-151, 46-152, 46-153, 46-154, 46-155, 47-156, 48-157, 48-158, 48-159, 49-160, 49-161, 49-162, 49-163, 49-164, 49-165, 49-166, 49-167, 50-168, 50-169, 51-170, 51-171, 52-172, 52-173, 52-174, 53-175, 53-176, 53-177, 54-178, 54-179, 55-180, 56-181, 57-182, 57-183, 58-184, 58-185, 58-186, 59-187, 60-188, 60-189, 60-190, 60-191, 60-192, 60-193
5-015	Clothing	61-194, 62-195, 62-196, 62-197, 62-198, 63-199, 63-200, 63-201, 63-202, 63-203, 63-204, 63-205, 63-206, 63-207, 63-208



<u>Input-Output 40 Commodity Classification No.</u>	<u>Input-Output 40 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
6-016	Lumber & sawmill products	64-209, 64-210, 64-211, 64-212, 64-213, 64-214
6-017	Furniture & fixtures	70-224, 71-225, 72-226, 72-227, 73-228
6-018	Other wood products	65-215, 66-216, 66-217, 66-218, 67-219, 68-220, 69-221, 69-222, 69-223
7-019	Paper and paper products	74-229, 74-230, 74-231, 74-232, 74-233, 74-234, 74-235, 74-236, 74-237, 74-238, 74-239, 74-240, 75-241, 75-242, 76-243, 77-244, 77-245, 77-246, 77-247, 77-248, 77-249, 77-250
8-020	Iron and steel basic products	80-259, 80-260, 80-261, 80-262, 80-263, 80-264, 80-265, 80-266, 80-267, 80-268, 80-269, 80-270, 80-271, 80-272, 81-273, 81-274, 81-275, 81-276, 82-277, 82-278, 87-298, 87-299, 87-300, 87-301, 87-302, 88-303, 88-304, 88-305, 89-306, 90-307, 90-308, 90-309, 90-310, 90-311, 90-312, 90-313, 91-314, 91-315, 91-316, 91-317, 91-318, 91-319, 91-320, 91-321, 91-322, 92-323, 92-324, 92-325, 95-340, 95-341, 95-342, 95-343, 95-344
8-021	Non-ferrous metal basic products	83-279, 83-280, 83-281, 83-282, 83-283, 83-284, 83-285, 83-286, 83-287, 83-288, 83-289, 84-290, 85-291, 85-292, 86-293, 86-294, 86-295, 86-296, 86-297

<u>Input-Output 40 Commodity Classification No.</u>	<u>Input-Output 40 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
8-022	Machinery and equipment (excl. agricultural)	92-326, 92-327, 92-328, 92-329, 92-330, 92-331, 92-332, 92-333, 93-334, 93-335, 93-336, 93-337, 93-338, 94-339, 95-345, 95-346, 95-347, 95-348, 95-349, 97-352, 97-353, 97-354, 97-355, 97-356, 97-357, 97-358, 97-359, 97-360, 97-361, 97-362, 98-363, 99-364, 99-365, 99-366, 99-367
9-023	Automobiles, trucks and parts	101-372, 101-373, 101-374, 101-375, 102-376, 102-377, 102-378, 103-379, 103-380, 103-381, 103-382
9-024	Other transportation equipment (incl. agriculture)	96-350, 96-351, 100-368, 100-369, 100-370, 100-371, 104-383, 104-384, 104-385, 105-386, 105-387, 105-388, 106-389, 106-390
9-025	Electrical and communications equipment	107-391, 108-392, 108-393, 108-394, 108-395, 109-396, 109-397, 110-398, 110-399, 110-400, 110-401, 110-402, 110-403, 111-404, 111-405, 111-406, 111-407, 111-408, 112-409, 113-410, 113-411, 114-412, 114-413, 114-414
10-026	Rubber products	39-129, 40-130, 40-131, 40-132, 40-133, 40-134, 41-135, 41-136, 41-137, 41-138, 41-139, 41-140, 41-141, 41-142, 41-143
10-027	Petroleum & coal products	128-436, 128-437, 128-438, 128-439, 128-440, 128-441, 128-442, 128-443, 128-444, 129-445

Input-Output  
40 Commodity  
Classification No.

Input-Output  
40 Commodity Title

Groupings of 644  
Input-Output Commodities

10-028

Chemical products

130-446, 130-447, 130-448,  
130-449, 131-450, 132-451,  
132-452, 132-453, 132-454,  
133-455, 134-456, 135-457,  
135-458, 135-459, 135-460,  
135-461, 135-462, 136-463,  
137-464, 137-465, 137-466,  
137-467, 137-468, 137-469,  
137-470, 137-471, 137-472,  
137-473, 137-474, 137-475,  
137-476, 137-477, 137-478,  
137-479, 137-480, 137-481,  
137-482, 137-483, 137-484,  
137-485, 137-486, 137-487,  
137-488, 137-489, 137-490,  
137-491, 137-492, 137-493,  
137-494, 137-495, 137-496,  
137-497, 137-498, 137-499,  
137-500, 137-501, 137-502,  
137-503, 137-504, 137-505,  
137-506, 137-507, 137-508,  
137-509, 137-510, 137-511,  
137-512, 137-513, 137-514,  
137-515, 137-516, 137-517,  
137-518, 137-519, 137-520,  
137-521, 137-522, 137-523,  
137-524, 137-525, 137-526,  
137-527, 137-528, 138-529,  
138-530, 138-531, 138-532,  
138-533, 138-534, 138-535,  
138-536, 138-537, 138-538,  
138-539, 138-540, 138-541,  
138-542, 138-543, 138-544,  
138-545, 138-546, 138-547,  
138-548, 138-549, 138-550,  
138-551, 138-552

11-029

Printing & publishing  
products

78-251, 78-252, 78-253,  
78-254, 78-255, 78-256,  
78-257, 79-258

<u>Input-Output 40 Commodity Classification No.</u>	<u>Input-Output 40 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
11-030	Non-metallic mineral products	115-415, 116-416, 117-417, 118-418, 118-419, 119-420, 120-421, 120-422, 120-423, 121-424, 122-425, 122-426, 123-427, 124-428, 124-429, 125-430, 125-431, 125-432, 125-433, 126-434, 127-435
11-031	Miscellaneous manufactured commodities	139-553, 139-554, 139-555, 139-556, 139-557, 139-558 139-559, 140-560, 140-561, 141-562, 142-563, 143-564, 143-565, 143-566, 143-567, 144-568, 144-569, 144-570, 145-571, 146-572, 146-573, 147-574, 147-575, 147-576, 147-577, 147-578, 147-579, 147-580, 147-581
12-032	Construction	148-582
13-033	Transportation, storage and trade	149-583, 150-584, 150-585, 151-586, 151-587, 152-588, 153-589, 154-590, 155-591, 156-592, 157-593, 158-594, 159-595, 166-603, 166-604, 166-605, 167-606, 167-607
14-034	Utilities	163-599, 164-600, 164-601, 165-602
15-035	Finance, insurance and real estate	168-608, 168-609, 168-610, 168-611
15-036	Communications	160-596, 161-597, 162-598
15-037	Business services	175-617, 176-618, 178-620, 178-621, 178-622, 182-628, 182-630
15-038	Personal services	169-612, 170-613, 171-614, 173-615, 174-616, 177-619, 179-623, 180-624, 181-625, 181-626, 182-627, 182-629



<u>Input-Output 40 Commodity Classification No.</u>	<u>Input-Output 40 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
16-039	Advertising, travel & entertainment	188-636, 190-637
16-040	Repair & operating supplies and services	183-631, 184-632, 185-633, 186-634, 187-635, 191-638

Specified Non-Competitive Commodities (Imported)

041	Non-competitive imports	000-639, 000-640, 000-641, 000-642, 000-643, 000-644
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CLASSIFICATION OF 65 INPUT-OUTPUT COMMODITY GROUPS

IOCC-M

COMMODITY TITLES AND DEFINITIONS

<u>Input-Output 65 Commodity Classification No.</u>	<u>Input-Output 65 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
1-001	Agricultural products	1-001, 1-002, 1-003, 1-004, 1-005, 1-006, 1-007, 1-008, 1-009, 1-010, 1-011, 1-012, 1-013, 1-014, 1-015, 1-016, 1-017, 1-018, 1-019, 1-020, 1-021, 1-022, 0-023, 1-024
2-002	Forestry products	2-025, 2-026, 2-027, 2-028, 2-029
3-003	Hunting, fishing, trapping products	3-030, 3-031
4-004	Metallic ores and concentrates	4-032, 6-033, 7-034, 8-035, 8-036
5-005	Non-metallic minerals	12-042, 13-043, 14-044, 15-045, 15-046, 15-047, 15-048, 16-049, 16-050
6-006	Coal	9-037
7-007	Oil, gas & services incidental to mining	10-038, 10-039, 10-040, 10-041, 17-051
8-008	Meat products	18-052, 18-053, 18-054, 18-055, 18-056, 18-057, 18-058, 18-059, 18-060, 18-061, 18-062, 18-063, 18-064, 19-065, 19-066
9-009	Dairy products	20-067, 20-068, 20-069, 20-070, 20-071, 20-072, 20-073, 21-074, 21-075

<u>Input-Output 65 Commodity Classification No.</u>	<u>Input-Output 65 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
10-010	Fruit and vegetable products	23-077, 23-078, 23-079, 23-080, 23-081, 23-082, 23-083, 23-084, 23-085, 23-086
11-011	Feed, flour, cereals	24-087, 24-088, 24-089, 24-090, 24-091, 25-092, 25-093, 25-094, 26-095
12-012	Biscuit & bakery products	27-096, 28-097, 28-098
13-013	Sugar, confectionery	29-099, 29-100, 29-101, 29-102, 30-103, 30-104, 30-105
14-014	Other food products	22-076, 31-106, 31-107, 31-108, 31-109, 32-110, 32-111, 32-112, 32-113, 32-114, 32-115, 32-116, 32-117
15-015	Soft drinks	33-118, 33-119
16-016	Alcoholic beverages	34-120, 34-121, 34-122, 34-123, 35-124, 36-125
17-017	Tobacco & tobacco products	37-126, 38-127, 38-128
18-018	Rubber products	39-129, 40-130, 39-131, 39-132, 40-133, 40-134, 41-135, 41-136, 41-137, 41-138, 41-139, 41-140, 41-141, 41-142, 41-143
19-019	Leather products	42-144, 43-145, 44-146, 45-147, 45-148, 45-149
20-120	Synthetic textiles	49-160, 49-161, 49-162, 49-163, 49-164, 49-165, 49-166, 49-167
21-021	Cotton, yarn & cloth	46-150, 46-151, 46-152, 46-153, 46-154, 46-155
22-022	Knitted products	61-194, 62-195, 62-196, 62-197, 62-198
23-023	Clothing	63-199, 63-200, 63-201, 63-202, 63-203, 63-204, 63-205, 63-206, 63-207, 63-208

<u>Input-Output 65 Commodity Classification No.</u>	<u>Input-Output 65 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
24-024	Other textiles	47-156, 48-157, 48-158, 48-159, 50-168, 50-169, 51-170, 51-171, 52-172, 52-173, 52-174, 53-175, 53-176, 53-177, 54-178, 54-179, 55-180, 56-181, 57-182, 57-183, 58-184, 58-185, 58-186, 59-187, 60-188, 60-189, 60-190, 60-191, 60-192, 60-193
25-025	Lumber & sawmill products	64-209, 64-210, 64-211, 64-212, 64-213, 64-214
26-026	Furniture & fixtures	70-224, 71-225, 72-226, 72-227, 73-228
27-027	Other wood products	65-215, 66-216, 66-217, 66-218, 67-219, 68-220, 69-221, 69-222, 69-223
28-028	Pulp & paper mill products	74-229, 74-230, 74-231, 74-232, 74-233, 74-234, 74-235, 74-236, 74-237, 74-238, 74-239, 74-240
29-029	Other paper products	75-241, 75-242, 76-243, 77-244, 77-245, 77-246, 77-247, 77-248, 77-249, 77-250
30-030	Printing & publishing products	78-251, 78-252, 78-253, 78-254, 78-255, 78-256, 78-257, 79-258
31-031	Iron & steel mill products	80-259, 80-260, 80-261, 80-262, 80-263, 80-264, 80-265, 80-266, 80-267, 80-268, 80-269, 80-270, 80-271, 80-272
32-032	Smelted & refined metals	83-279, 83-280, 83-281, 83-282, 83-283, 83-284, 83-285, 83-286, 83-287, 83-288, 83-289



<u>Input-Output 65 Commodity Classification No.</u>	<u>Input-Output 65 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
33-033	Other primary metals	81-273, 81-274, 81-275, 81-276, 82-277, 82-278, 84-290, 85-291, 85-292, 86-293, 86-294, 86-295, 86-296, 86-297
34-034	Fabricated structural metal products	88-303, 88-304, 88-305
35-035	Metal stampings	90-307, 90-308, 90-309, 90-310, 90-311, 90-312, 90-313
36-036	Other metal working products	87-298, 87-299, 87-300, 87-301, 87-302, 89-306, 91-314, 91-315, 91-316, 91-317, 91-318, 91-319, 91-320, 91-321, 91-322, 92-323, 92-324, 92-325, 92-326, 92-327, 92-328, 92-329, 92-330, 92-331, 92-332, 92-333, 93-334, 93-335, 93-336, 93-337, 93-338, 94-339, 95-340, 95-341, 95-342, 95-343, 95-344, 95-345, 95-346, 95-347, 95-348, 95-349
37-037	Machinery (n.e.s.)	96-350, 96-351, 97-352, 97-353, 97-354, 97-355, 97-356, 97-357, 97-358, 97-359, 97-360, 97-361, 97-362, 98-363, 99-364, 99-365, 99-366, 99-367
38-038	Aircraft & parts	100-368, 100-369, 100-370, 100-371
39-039	Automobile & truck	101-372, 101-373, 101-374, 101-375, 102-376, 102-377, 102-378
40-040	Motot vehicle parts	103-379, 103-380, 103-381, 103-382
41-041	Other transportation equipment	104-383, 104-384, 104-385, 105-386, 105-387, 105-388, 106-389, 106-390
42-042	Electrical appliances	107-391, 108-392, 108-393, 108-394, 108-395

<u>Input-Output 65 Commodity Classification No.</u>	<u>Input-Output 65 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
43-043	Industrial equipment, electrical	111-404, 111-405, 111-406, 111-407, 111-408
44-044	Communication equipment & wire	110-398, 110-399, 110-400, 110-401, 110-402, 110-403, 113-410, 113-411
45-045	Other electrical products	109-396, 109-397, 112-409, 114-412, 114-413, 114-414
46-046	Clay, lime & cement	115-415, 116-416, 117-417, 118-418, 118-419, 119-420, 120-421, 120-422, 120-423, 121-424, 122-425, 122-426
47-047	Non-metal mineral products (n.e.s.)	123-427, 124-428, 124-429, 125-430, 125-431, 125-432, 125-433, 126-434, 127-435
48-048	Petroleum & coal products	128-436, 128-437, 128-438, 128-439, 128-440, 128-441, 128-442, 128-443, 128-444, 129-445
49-049	Plastics & synthetic resins	132-451, 132-452, 132-453, 132-454
50-050	Paint & varnish	134-456
51-051	Pharmaceuticals, soaps & toiletries	133-455, 135-457, 135-458, 135-459, 135-460, 135-461, 135-462, 136-463
52-052	Other chemical products	130-446, 130-447, 130-448, 130-449, 131-450, 137-464, 137-465, 137-466, 137-467, 137-468, 137-469, 137-470, 137-471, 137-472, 137-473, 137-474, 137-475, 137-476, 137-477, 137-478, 137-479, 137-480, 137-481, 137-482, 137-483, 137-484, 137-485, 137-486, 137-487, 137-488, 137-489, 137-490, 137-491, 137-492, 137-493, 137-494, 137-495, 137-496, 137-497, 137-498, 137-499, 137-500, 137-501, 137-502, 137-503, 137-504, 137-505, 137-506,

Continued .....

Input-Output  
65 Commodity  
Classification No.

Input-Output  
65 Commodity Title

Groupings of 644  
Input-Output Commodities

53-053

Miscellaneous  
manufactured commodities

137-507, 137-508, 137-509,  
137-510, 137-511, 137-512,  
137-513, 137-514, 137-515,  
137-516, 137-517, 137-518,  
137-519, 137-520, 137-521,  
137-522, 137-523, 137-524,  
137-525, 137-526, 137-527,  
137-528, 138-529, 138-530,  
138-531, 138-532, 138-533,  
138-534, 138-535, 138-536,  
138-537, 138-538, 138-539,  
138-540, 138-541, 138-542,  
138-543, 138-544, 138-545,  
138-546, 138-547, 138-548,  
138-549, 138-550, 138-551,  
138-552

139-553, 139-554, 139-555,  
139-556, 139-557, 139-558,  
139-559, 140-560, 140-561,  
141-562, 142-563, 143-564,  
143-565, 143-566, 143-567,  
144-568, 144-569, 144-570,  
145-571, 146-572, 146-573,  
147-574, 147-575, 147-576,  
147-577, 147-578, 147-579,  
147-580, 147-581

54-054

Construction

148-582

55-055

Trade

166-603, 166-604, 166-605,  
167-606, 167-607

56-056

Transport & storage

149-583, 150-584, 150-585,  
151-586, 151-587, 152-588,  
153-589, 154-590, 155-591,  
156-592, 157-593, 158-594,  
159-595

57-057

Communications

160-596, 161-597, 162-598

58-058

Utilities

163-599, 164-600, 164-601,  
165-602

<u>Input-Output 65 Commodity Classification No.</u>	<u>Input-Output 65 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
59-059	Finance, insurance and real estate	168-608, 168-609, 168-610, 168-611
60-060	Business services	175-617, 176-618
61-061	Accommodation & meals	178-620, 178-621, 178-622
62-062	Other services	169-612, 170-613, 171-614, 173-615, 174-616, 177-619, 179-623, 180-624, 181-625, 181-626, 182-627, 182-628, 182-629, 182-630
63-063	Office supplies	184-632
64-064	Advertising, travel and entertainment	188-636, 190-637
65-065	Repair, operating supplies and services	183-631, 185-633, 186-634, 187-635, 191-638

Specified Non-Competitive Commodities (Imported)

066	Non-competitive imports	000-639, 000-640, 000-641, 000-642, 000-643, 000-644
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CLASSIFICATION OF 197 INPUT-OUTPUT COMMODITY GROUPS

IOCC-L

COMMODITY TITLES AND DEFINITIONS

<u>Input-Output 197 Commodity Classification No.</u>	<u>Input-Output 197 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
1-001	Live animals	1-001, 1-002, 1-003, 1-004, 1-005, 1-006
1-002	Grain	1-007, 1-008, 1-009
1-003	Fruits, nuts and vegetables	1-013, 1-014, 1-015
1-004	Milk, unprocessed	1-010
1-005	Eggs in the shell	1-011
1-006	Tobacco	1-021
1-007	Oil seeds, oil nuts and oil kernels	1-019
1-008	Agricultural products,n.e.s.	1-012, 1-016, 1-017, 1-018, 1-020, 1-022, 1-023, 1-024
2-009	Forestry products	2-025, 2-026, 2-027, 2-028, 2-029
3-010	Fish landings	3-030
3-011	Fur skins, undressed, excluding ranch	3-031
4-012	Iron ores and concentrates	7-034
5-013	Metallic ores and concen- trates, n.e.s.	4-032
6-014	Radioactive ores and concen- trates	6-033
7-015	Gold and platinum ores and concentrates	8-035, 8-036
8-016	Coal	9-037
9-017	Crude mineral oils	10-038, 10-040

<u>Input-Output 197 Commodity Classification No.</u>	<u>Input-Output 197 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
9-018	Natural gas	10-039
9-019	Products incidental to mining (including sulphur)	17-051, 10-041
10-020	Asbestos, crude and milled fibres	12-042
11-021	Clay and gypsum	13-043, 15-046
11-022	Salt	14-044
11-023	Non-metallic minerals, n.e.s.	15-045, 15-047, 15-048, 16-049, 16-050
12-024	Meat	18-052, 18-053, 18-054, 18-055, 18-056
12-025	Hides and skins, raw	18-062
12-026	Margarine, animal oils and fats and lard	18-057, 18-058
12-027	Meat by-products, n.e.s.	18-059, 18-060, 18-061, 18-063, 18-064
13-028	Poultry	19-065, 19-066
14-029	Milk and cream, fresh, processed	20-067, 20-068
14-030	Butter	20-069
14-031	Cheese, milk and cheddar	20-070
14-032	Dairy products, n.e.s.	20-071, 20-072, 20-073
15-033	Process cheese, mayonnaise	21-074, 21-075
16-034	Fish products	22-076
17-035	Fruit and vegetable products	23-077, 23-078, 23-079, 23-080, 23-081, 23-082, 23-083, 23-084, 23-085, 23-086
18-036	Feeds and concentrates	24-087, 24-088, 24-089, 24-090, 24-091
19-037	Flour and meal, cereal and vegetable	25-092, 25-093, 25-094
20-038	Breakfast cereals	26-095
21-039	Biscuits and similar products	27-096
22-040	Bakery products	28-097, 28-098
23-041	Confectionery products	29-099, 29-100, 29-101, 29-102

<u>Input-Output 197 Commodity Classification No.</u>	<u>Input-Output 197 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
24-042	Sugar and molasses	30-103, 30-104, 30-105
25-043	Oilseed meal, cake and oil	31-106, 31-107, 31-108, 31-109
25-044	Coffee and tea	32-114, 32-115
26-045	Food products and by- products, n.e.s	32-110, 32-111, 32-112 32-113, 32-116, 32-117
27-046	Soft drinks and concentrates	33-118, 33-119
28-047	Distillery products	34-120, 34-121, 34-122, 34-123
29-048	Brewery and winery products	35-124, 36-125
30-049	Tobacco, processed but unmanufactured	37-126
31-050	Tobacco products	38-127, 38-128
32-051	Footwear, rubber and plastic	39-129
33-052	Tires and tubes	40-130, 40-131, 40-132, 40-133, 40-134
34-053	Rubber products, n.e.s.	41-135, 41-136, 41-137, 41-138, 41-139, 41-140, 41-141, 41-142, 41-143
35-054	Leather	42-144
36-055	Footwear, leather	43-145
37-056	Leather products, n.e.s.	44-146, 45-147, 45-148, 45-149
38-057	Yarn, cotton and cotton blends	46-150, 46-151
38-058	Fabrics and products, cotton	46-152, 46-153, 46-154, 46-155
39-059	Yarn and fabric, wool and wool blends	47-156, 48-157, 48-158, 48-159
40-060	Yarns and fibres, synthetic	49-160, 49-161, 49-162, 49-163
40-061	Fabrics and products, syn. fibres and blends	49-164, 49-165, 49-166, 49-167
41-062	Carpeting	55-180

<u>Input-Output 197 Commodity Classification No.</u>	<u>Input-Output 197 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
42-063	Coated fabric and linoleum	57-182, 57-183
43-064	Canvas products	58-184, 58-185, 58-186
43-065	Containers, textile	59-187
44-066	Felt	54-178, 54-179
44-067	Cordage and twine	52-173, 52-174
44-068	Fabrics; lace, narrow, quilting, belting and foam,	53-175, 53-176, 53-177, 60-189
44-069	Textile products, n.e.s.	50-168, 50-169, 50-170, 51-171, 52-172, 56-181, 60-188, 60-190, 60-191, 60-192, 60-193
45-070	Hosiery	61-194
46-071	Fabrics, knitted	62-195, 62-196
46-072	Clothing, knitted	62-197, 62-198
47-073	Clothing, fur	63-205, 63-206, 63-207
47-074	Clothing, n.e.s.	63-199, 63-200, 63-201, 63-202, 63-203, 63-204, 63-208
48-075	Pulpwood chips and wood by-products	64-209, 64-213
48-076	Sawmill products	64-210, 64-211, 64-212, 64-214
49-077	Plywood and Veneer	65-215
50-078	Millwork (woodwork)	66-216, 66-217, 66-218
51-079	Containers, wooden	67-219, 69-222
51-080	Wood products, n.e.s.	68-220, 69-221, 69-223
52-081	Furniture, household	70-224
53-082	Furniture, n.e.s.	71-225, 72-226, 72-227 73-228
54-083	Pulp	74-229
54-084	Paper stock	74-230, 74-231, 74-232, 74-233, 74-234, 74-235, 74-237
54-085	Paper products and by- products, n.e.s.	74-236, 74-238, 74-239,



<u>Input-Output 197 Commodity Classification No.</u>	<u>Input-Output 197 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
55-086	Building paper and construction materials	75-241, 75-242
56-087	Paper, cartons	76-243
57-088	Converted paper products	77-244, 77-245, 77-246, 77-247, 77-248, 77-249, 77-250
58-089	Printed matter	78-251, 78-252, 78-253, 78-254
58-090	Printing and publishing	78-255, 78-256, 78-257, 79-258
59-091	Pig iron, steel in primary shapes, and ferro alloys	80-259, 80-260, 80-261
59-092	Steel bars and rods	80-263
59-093	Steel plates, sheet and strip	80-264, 80-265, 80-266, 80-267, 80-268
59-094	Structural shapes, including rails and track material of steel	80-269, 80-270
59-095	Steel castings	80-262
59-096	Graphite and carbon products and coal tar	80-271, 80-272
60-097	Steel pipes and tubes	81-273, 81-274, 81-275, 81-276
61-098	Iron castings	82-277, 82-278
62-099	Non-ferrous base metals, alloys in primary forms	83-279, 83-280, 83-281, 83-282, 83-283, 83-284, 83-285, 83-286, 83-287, 83-288, 83-289
63-100	Aluminum, cast, rolled or extruded	84-290
64-101	Copper and copper alloys	85-291, 85-292
65-102	Non-ferrous metals, cast, rolled or extruded, n.e.s.	86-293, 86-294, 86-295, 86-296, 86-297
66-103	Plates, tanks and boilers	87-298, 87-299, 87-300, 87-301, 87-302

<u>Input-Output 197 Commodity Classification No.</u>	<u>Input-Output 197 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
67-104	Basic steel products, punched, drilled, or otherwise fabricated (including structural)	88-303, 88-304, 88-305
68-105	Fences, doors and archi- tectural metal products, n.e.s	89-306
69-106	Containers, metal	90-313
69-107	Basic metal products, stamped, pressed or perforated	90-307, 90-308, 90-309, 90-310
69-108	Metal household products, including ash cans, ironing boards and cooking utensils	90-311, 90-312
70-109	Wire and wire products	91-314, 91-315, 91-316, 91-317, 91-318, 91-319, 91-320, 91-321, 91-322
71-110	Hardware, n.e.s.	92-323, 92-324, 92-325
71-111	Tools and cutting equipment	92-326, 92-327, 92-328, 92-329, 92-330, 92-331, 92-332, 92-333
71-112	Heating and fuel burning equipment	93-334, 93-335, 93-336, 93-337, 93-338
72-113	Forgings and plumbing equipment of steel, metal, and plumber's brass	95-340, 95-341, 95-342, 95-343, 95-344
72-114	Equipment, metal fabricated, including firearms and fire- fighting and traffic control equipment	94-339, 95-345, 95-346, 95-347, 95-348, 95-349
73-115	Agricultural implements	96-350, 96-351
73-116	Industrial Machinery	97-352, 97-353, 97-354, 97-355, 97-356, 97-357, 97-358, 97-359, 97-360, 97-361, 97-362
74-117	Refrigeration and air conditioning equipment	98-363
74-118	Office and store machinery	99-364, 99-365, 99-366, 99-367

<u>Input-Output 197 Commodity Classification No.</u>	<u>Input-Output 197 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
75-119	Aircraft and aircraft equipt.	100-368, 100-369, 100-370
75-120	Modification, conversion, servicing, overhaul and repair to aircraft and engines	100-371
76-121	Passenger automobiles and chassis	101-372
76-122	Commercial vehicles	101-373, 101-374
76-123	Commercial trailers and semi-trailers	102-377
76-124	Motor vehicles and accesso- ries, n.e.s.	101-375, 102-376, 102-378
77-125	Motor vehicle parts and assemblies, n.e.s.	103-379, 103-380, 103-381, 103-382
78-128	Railway rolling stock	104-383, 104-384, 104-385
78-127	Ships and boats, including parts and accessories	105-386, 105-387, 106-390
78-128	Vehicles, n.e.s.	106-389
78-129	Ship repair	105-388
79-130	Small electrical appliances	107-391
79-131	Refrigerators, freezers and combinations, domestic	108-393
79-132	Gas stoves and electric ranges, domestic	108-394
79-133	Appliances, domestic, n.e.s.	108-392, 108-395
80-134	Communications equipment	110-398, 110-399, 110-400 110-401, 110-402, 110-403
80-135	Wire and cable, electrical	113-410, 113-411
81-136	Industrial equipment, electrical	111-404, 111-405, 111-406 111-407, 111-408
82-137	Radio, television and sound recording and reproducing equipment	109-396, 109-397
82-138	Batteries	112-409

<u>Input-Output 197 Commodity Classification No.</u>	<u>Input-Output 197 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
82-139	Light bulbs and fixtures	114-413, 114-414
82-140	Electrical equipment, n.e.s.	114-412
83-141	Cement	115-415
83-142	Lime	116-416
84-143	Plasters and other gypsum basic products	117-417
84-144	Concrete basic products	118-418, 118-419, 119-420
85-145	Clay products including porcelain and vitreous china	120-421, 120-422, 120-423
85-146	Refractories	121-424
85-147	Natural stone products	122-425, 122-426
86-148	Glass and glass products	125-430, 125-431, 125-432, 125-433
86-149	Mineral wool and thermal insulation materials, n.e.s.	123-427
87-150	Asbestos basic products	124-428, 124-429
87-151	Non-metallic mineral basic products, n.e.s.	126-434, 127-435
88-152	Gasoline	128-436, 128-437
88-153	Fuel oil	128-438
88-154	Lubricating oil and grease	128-439
88-155	Petroleum and coal products, n.e.s.	128-440, 128-441, 128-442, 128-443, 128-444, 129-445
89-156	Explosives including ammunition and pyrotechnics	130-446, 130-447, 130-448 130-449
90-157	Fertilizers	131-450
91-158	Plastic resins, cellulosic plastic film and sheet, and products incidental to resin manufacturing	132-451, 132-452, 132-453, 132-454
92-159	Medicinal and pharmaceutical products	133-455
93-160	Paint and related products	134-456
94-161	Soaps, detergents, cleaning compounds and javel water	135-460, 135-461, 135-462



<u>Input-Output 197 Commodity Classification No.</u>	<u>Input-Output 197 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
94-162	Vegetable oils and glycerine, refined (excluding corn oil) and dentifrices	135-457, 135-458, 135-459
95-163	Toilet preparations and cosmetics	136-463
96-164	Pigments, dyes, inks, and tanning materials	137-519, 137-520, 137-521, 137-522, 138-540, 138-541 138-548
96-165	Inorganic chemicals	137-464, 137-465, 137-466, 137-467, 137-468, 137-469, 137-470, 137-471, 137-472, 137-473, 137-474, 137-475, 137-476, 137-477, 137-478, 137-479, 137-480, 137-481, 137-482, 137-483
96-166	Organic and organo-inorganic chemicals	137-484, 137-485, 137-486, 137-487, 137-488, 137-489, 137-490, 137-491, 137-492 137-493, 137-494, 137-495, 137-496, 137-497, 137-498, 137-499, 137-500, 137-501, 137-502, 137-503, 137-504, 137-505, 137-506, 137-507, 137-508, 137-509, 137-510, 137-511, 137-512, 137-513, 137-514, 137-515, 137-516, 137-517, 137-518
96-167	Industrial chemical products including synthetic rubber, adhesives and insecticides	137-523, 137-524, 137-525, 137-526, 137-527, 137-528, 138-529, 138-530, 138-531, 138-532, 138-533, 138-534, 138-535, 138-536, 138-537, 138-538, 138-539, 138-542, 138-543, 138-546, 138-547, 138-549, 138-550, 138-551
96-168	Household chemical products	138-544, 138-545, 138-552
97-169	Scientific and laboratory equipment	139-553, 139-554, 139-555, 139-556, 139-557
97-170	Jewelry, including watches and tableware	139-558, 139-559, 140-560, 140-561
97-171	Plastic fabricated products	143-564, 143-565, 143-566, 143-567

<u>Input-Output 197 Commodity Classification No.</u>	<u>Input-Output 197 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
97-172	Sporting goods and toys	144-568, 144-569, 144-570
97-173	Fur dressing and dyeing	145-571
97-174	Signs and displays	146-572, 146-573
97-175	Notions	147-579
97-176	Office, desk and writing equipment	147-577, 147-578
97-177	End products, n.e.s.	141-562, 142-563, 147-574, 147-575, 147-576, 147-580, 147-581
98-178	Construction	148-582
99-179	Wholesale and retail trade	166-603, 166-604, 166-605, 167-606, 167-607
100-180	Transportation and storage	149-583, 150-584, 150-585, 151-586, 151-587, 152-588, 153-589, 154-590, 155-591, 156-592, 157-593, 158-594, 159-595
101-181	Radio and television broadcasting	160-596
101-182	Telephone and telegraph communications	161-597
101-183	Postal services	162-598
102-184	Electric power	163-599
102-185	Gas distribution and other utilities	164-600, 164-601, 165-602
103-186	Real estate rent	168-610
103-187	Insurance and other financial services	168-608, 168-609, 168-611
104-188	Health and education	170-613, 171-614
105-189	Business services	175-617, 176-618
106-190	Accommodation and meals	178-620, 178-621, 178-622
107-191	Personal services, n.e.s.	169-612, 173-615, 174-616, 177-619, 179-623, 180-624, 181-625, 181-626, 182-627, 182-629
107-192	Rentals, excluding real estate	182-628, 182-630

<u>Input-Output 197 Commodity Classification No.</u>	<u>Input-Output 197 Commodity Title</u>	<u>Groupings of 644 Input-Output Commodities</u>
108-193	Office supplies	184-632
109-194	Advertising	190-637
109-195	Travel and entertainment	188-636
110-196	Cafeteria supplies	185-633
110-197	Repair & operating supplies	183-631, 186-634, 187-635, 191-638

Specified Non-Competitive Commodities (Imported)

198	Non-competitive imports	000-639, 000-640, 000-641, 000-642, 000-643, 000-644
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TABLE 1 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION 5 (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	1	2	3	4	5	6	7	8
	AGR. FORESTRY FISHING	MINING EX. COAL	FUEL MINES AND WELLS	FOOD, TOBACCO IND.	TEXTILE INDUSTRIES	WOOD AND FURN. IND.	PAPER INDUSTRIES	METAL INDUSTRIES
	1	2	3	4	5	6	7	8
				(millions of dollars)				
LIVE ANIMALS	38.3	.0	.0	695.0	.0	.0	.0	.0
GRAIN	42.3	.0	.0	281.2	.0	.0	.0	.0
FISH & FUR	1.9	.0	.0	92.8	13.4	.0	.0	.0
FORESTRY PRODUCTS	101.3	.0	.0	.2	.0	316.2	343.9	.3
OTHER AGR. PROD.	72.9	.0	.0	747.0	14.1	.1	.2	.0
METAL ORES & CONC.	.0	.0	.0	.0	.0	.0	.1	763.4
NON-METAL MINERALS	.4	4.8	1.1	3.7	.4	.0	9.4	11.3
COAL	3.8	2.8	.3	6.0	3.3	.7	19.2	57.8
OIL & NAT. GAS	.2	26.9	26.0	1.2	.1	.1	8.5	2.5
MEAT & DAIRY PROD.	2.4	.0	.0	356.7	24.0	.0	.2	.0
ALL OTHER FOODS	271.0	.0	.2	429.9	7.3	.8	4.8	2.0
BEVERAGES	.0	.0	.0	40.0	.0	.3	.0	.0
TOBACCO	.0	.0	.0	75.8	.0	.0	.0	.0
LEATHER & TEXTILES	20.3	2.1	.0	14.7	726.1	35.7	17.6	1.3
CLOTHING	.4	.0	.0	.1	100.0	.0	.0	.0
LUMBER	1.9	.0	.6	.3	.2	130.9	44.0	3.4
FURNITURE	.0	.0	.0	.0	.0	9.5	.0	.7
OTHER WOOD PROD.	5.5	.5	.0	8.0	2.8	34.3	1.3	6.2
PAPER & PRODUCTS	2.7	6.2	.0	200.7	31.6	9.6	317.1	16.1
IRON & STEEL PROD.	11.7	10.9	3.4	103.2	4.3	42.6	17.1	732.1
NON-FERROUS PROD.	.0	.3	.0	.1	.5	1.2	6.3	636.4
MACHINERY & EQUIP.	7.3	20.3	14.0	1.8	1.4	.2	1.1	186.0
VEHICLES & PARTS	.0	.0	.0	.0	.0	.0	.0	2.1
OTHER TRANS. EQUIP.	40.2	.9	.1	.0	.0	.0	.0	1.0
ELEC. & COM. EQUIP.	.8	.0	.0	.0	.3	1.8	.0	39.8



TABLE 1 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION 5 (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	AGR.FORESTRY FISHING 1	MINING EX.COAL 2	FUEL MINES AND WELLS 3	FOOD, TOBACCO IND. 4	TEXTILE INDUSTRIES 5	WOOD AND FURN.IND. 6	PAPER INDUSTRIES 7	METAL INDUSTRIES 8
COMMODITY(ROWS)								
RUBBER PRODUCTS 26	6.7	.0	.0	.0	15.3	7.1	.3	4.9
PETROLEUM PROD. 27	182.7	16.0	7.7	25.8	5.3	10.0	25.2	24.9
OTHER CHEMICALS 28	88.6	35.7	5.3	63.0	62.2	20.3	73.2	36.6
PRINTED MATTER 29	.0	.0	.0	7.2	.1	.1	6.1	1.6
OTH.MINERAL PROD.30	.4	2.3	.1	35.2	1.2	7.2	6.2	31.0
MISC. MFG. PROD.31	1.2	.0	.0	6.1	39.3	11.2	10.6	5.2
CONSTRUCTION 32	83.0	14.8	11.2	15.4	5.5	6.8	9.2	26.5
TRADE & TRANSPORT33	229.3	35.0	19.0	280.7	104.9	107.8	108.4	192.4
UTILITIES 34	28.6	29.5	16.1	33.9	12.9	13.2	71.2	80.0
FINANCIAL SERVICES35	164.3	18.5	154.3	46.1	37.5	20.8	21.4	48.9
COMMUNICATIONS 36	13.0	2.3	3.6	16.3	9.2	6.3	8.0	20.9
BUSINESS SERVICES37	40.3	19.6	25.5	39.7	13.4	6.1	10.6	24.0
PERSONAL SERVICE 38	4.9	3.8	5.5	16.3	4.3	4.4	8.6	18.7
ADVTG. & TRAVEL 39	5.3	4.1	9.9	208.0	50.9	16.3	22.0	59.8
REPAIR & MAINT. 40	200.4	86.2	46.0	132.1	60.1	53.5	89.5	164.6
NON-COMP.IMPORTS 41	.0	.0	.0	122.1	50.1	.0	.0	.0
BAL.OF PAYMNT ADJ42	.0	.0	.0	.0	.0	.0	.0	.0
COMMODITY TAXES 43	26.8	4.2	2.4	12.9	.8	1.7	1.3	4.7
SUBSIDIES 44	-21.0	-12.4	-15.5	-7.7	.0	.0	.0	-.3
INDIR.TAX&GOV.SER45	154.2	16.0	9.6	34.4	12.4	9.4	28.9	38.3
WAGES & SALARIES 46	544.0	380.1	167.4	873.3	660.9	423.3	505.7	1172.7
NET-INC.UNINCORP.47	999.9	4.1	2.2	28.4	12.4	18.9	.6	8.8
SURPLUS 48	692.4	643.5	360.7	426.3	128.9	97.3	430.9	503.9
SUB TOTAL(41-48) 49	2396.2	1035.6	526.7	1489.9	865.5	550.7	967.4	1728.1
TOTAL INPUTS 50	4070.3	1379.0	876.6	5474.3	2217.4	1426.0	2228.6	4930.7

TABLE 1 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION 5 (SEE CHAPTER 4)

INDUSTRY (COLUMNS) COMMODITY (ROWS)	TRANSPORT & ELEC. EQUIP. 9	CHEM. RUBBER PETROL. IND. 10	OTHER CONSTRUCTION MANUF. IND. 11	TRADE AND TRANSPORT 13	UTILITIES 14	COM. AND SERVICE IND. 15	DUMMY INDUSTRIES 16
LIVE ANIMALS 1	.0	.4	.0	209.0	.0	.0	.0
GRAIN 2	.0	.0	.0	.7	.0	.0	.0
FISH & FUR 3	.0	.0	.0	.0	.0	1.5	.4
FORESTRY PRODUCTS 4	.0	.1	.2	3.1	.0	.0	.0
OTHER AGR. PROD. 5	.0	.2	.1	1.2	.0	53.5	10.7
METAL ORES & CONC. 6	.2	.9	15.2	.3	.0	.4	.0
NON-METAL MINERALS 7	.9	21.6	39.6	1.3	.0	.6	.1
COAL 8	4.5	12.1	8.8	3.9	6.9	.2	.0
OIL & NAT. GAS 9	.4	728.7	1.6	2.8	.8	1.4	.0
MEAT & DAIRY PROD. 10	.0	5.3	.1	8.4	.0	208.8	34.1
ALL OTHER FOODS 11	.0	34.7	.9	6.8	.0	144.2	22.9
BEVERAGES 12	.0	2.2	.0	.0	.0	19.2	41.0
TOBACCO 13	.0	.0	.0	.0	.0	.0	.0
LEATHER & TEXTILES 14	31.2	43.4	19.5	44.5	.0	36.5	17.2
CLOTHING 15	.0	.8	.4	17.5	.0	1.1	3.6
LUMBER 16	3.5	.1	5.7	7.3	2.0	.6	.7
FURNITURE 17	12.5	.0	.0	.4	.0	.6	.0
OTHER WOOD PROD. 18	3.1	1.5	7.4	2.4	.0	11.6	.1
PAPER & PRODUCTS 19	18.3	50.2	195.3	92.1	.0	19.9	49.9
IRON & STEEL PROD. 20	269.9	40.7	43.8	22.5	.0	3.1	83.9
NON-FERROUS PROD. 21	137.9	12.5	34.3	1.8	.0	1.7	.7
MACHINERY & EQUIP. 22	110.5	8.2	2.8	25.4	2.0	11.6	300.5
VEHICLES & PARTS 23	475.1	.0	.1	28.5	.0	.0	92.1
OTHER TRANS. EQUIP. 24	108.8	.3	.0	40.9	.0	.0	1.2
ELEC. & COM. EQUIP. 25	244.5	.1	6.3	4.6	.0	10.5	77.7

TABLE 1 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION 5 (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	TRANSPORT & ELEC.EQUIP. 9	CHEM.RUBBER PETROL.IND. 10	OTHER MANUF.IND. 11	CONSTRUCTION 12	TRADE AND TRANSPORT 13	UTILITIES 14	COM. AND SERVICE IND. 15	DUMMY INDUSTRIES 16
RUBBER PRODUCTS 26	62.0	10.9	1.7	26.1	32.2	.0	1.7	81.2
PETROLEUM PROD. 27	7.5	64.1	13.9	104.0	278.1	6.9	38.2	3.9
OTHER CHEMICALS 28	47.6	381.9	93.3	69.3	9.0	.3	67.3	147.7
PRINTED MATTER 29	.0	.3	66.1	.0	11.8	.4	19.9	562.7
OTH. MINERAL PROD. 30	34.4	15.6	89.2	470.2	3.4	.0	3.9	13.8
MISC. MFG. PROD. 31	27.7	21.6	35.4	58.3	15.7	.0	26.5	103.1
CONSTRUCTION 32	14.4	37.4	8.8	4.0	205.8	56.5	553.1	.0
TRADE & TRANSPORT 33	149.9	204.6	100.9	723.9	660.8	10.7	198.9	774.1
UTILITIES 34	20.0	50.9	30.5	6.7	110.5	244.3	45.8	.0
FINANCIAL SERVICES 35	43.2	39.3	43.5	61.7	501.5	32.1	589.8	.0
COMMUNICATIONS 36	17.8	12.8	27.1	7.7	227.2	4.7	134.9	92.9
BUSINESS SERVICES 37	20.1	19.5	16.7	226.6	148.1	8.2	126.6	545.1
PERSONAL SERVICE 38	18.0	13.7	19.3	32.2	25.6	1.1	225.5	127.9
ADVTG. & TRAVEL 39	76.4	120.7	76.1	29.8	394.5	6.7	196.6	.0
REPAIR & MAINT. 40	95.2	75.3	118.4	22.9	453.8	20.9	396.5	.0
NON-COMP. IMPORTS 41	.1	19.5	1.4	.0	4.8	.0	10.3	.8
BAL. OF PAYMNT ADJ 42	.0	.0	.0	.0	.0	.0	.0	.0
COMMODITY TAXES 43	3.7	1.8	5.4	206.1	159.5	1.8	26.3	102.6
SUBSIDIES 44	.0	.1	.0	.0	-172.4	-1.6	-80.4	.0
INDIR. TAX GOV. SER 45	33.0	25.0	21.5	63.8	240.2	23.5	1217.8	.0
WAGES & SALARIES 46	996.2	507.7	767.7	2177.2	4237.7	225.1	2793.2	.0
NET-INC. UNINCORP. 47	1.8	4.0	22.1	237.4	743.8	.7	1598.0	.0
SURPLUS 48	282.0	488.9	278.8	273.7	1810.8	608.4	3024.7	.0
SUB TOTAL (41-48) 49	1316.8	1046.8	1097.0	2958.1	7024.4	857.8	8589.9	103.5
TOTAL INPUTS 50	3372.4	3079.5	2220.2	7017.1	10627.8	1262.4	11742.2	3292.4

TABLE 1 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION S (SEE CHAPTER 4)

INDUSTRY (COLUMNS) COMMODITY (ROWS)	INTERMEDIATE INPUTS (1-16) 17	NET EXPORTS 18	RE-EXPORTS 19	IMPORTS 20	INVENTORY CHANGE 21	OTHER FINAL DEMAND 22	TOTAL OUTPUT 23
LIVE ANIMALS 1	942.8	66.2	.1	-8.6	34.5	73.2	1108.3
GRAIN 2	324.2	624.5	.0	-40.6	-439.8	.2	468.6
FISH & FUR 3	110.0	23.9	.9	-18.0	.5	5.8	123.1
FORESTRY PRODUCTS 4	782.6	42.9	1.0	-14.7	-12.0	38.3	838.1
OTHER AGR. PROD. 5	908.6	112.4	.9	-202.9	4.7	412.7	1236.5
METAL ORES & CONC. 6	780.6	519.0	.0	-126.5	19.4	.0	1192.6
NON-METAL MINERAL 7	161.5	153.0	4.3	-56.4	1.3	12.1	275.7
COAL 8	130.3	8.1	.0	-119.4	2.4	47.0	68.5
OIL & NAT. GAS 9	801.2	208.5	.0	-368.4	5.5	154.7	801.5
MEAT & DAIRY PROD. 10	640.1	93.9	1.9	-88.1	28.1	1844.2	2520.2
ALL OTHER FOODS 11	925.6	247.1	2.8	-303.7	37.3	1334.5	2243.5
BEVERAGES 12	103.0	88.7	.2	-65.7	23.1	456.4	605.6
TOBACCO 13	75.8	28.1	.0	-9.2	4.7	231.8	331.3
LEATHER & TEXTILES 14	1059.0	58.2	4.0	-451.8	17.8	496.1	1183.3
CLOTHING 15	123.9	9.7	.9	-101.4	18.4	1018.7	1070.2
LUMBER 16	367.5	354.9	.1	-39.2	13.7	6.7	703.7
FURNITURE 17	35.9	2.3	.2	-35.2	7.0	358.3	368.5
OTHER WOOD PROD. 18	329.3	39.7	.6	-32.5	9.7	11.3	358.1
PAPER & PRODUCTS 19	1085.3	1118.2	.8	-108.2	9.2	103.0	2208.3
IRON & STEEL PROD. 20	2393.5	144.9	5.0	-430.2	7.7	69.7	2190.6
NON-FERROUS PROD. 21	871.4	875.5	11.1	-117.0	3.1	-67.5	1576.5
MACHINERY & EQUIP. 22	939.4	87.1	26.6	-827.2	4.7	863.7	1094.3
VEHICLES & PARTS 23	606.7	42.6	6.6	-598.7	20.6	1173.1	1250.8
OTHER TRANS. EQUIP. 24	193.5	197.2	41.1	-469.3	13.4	717.5	693.5
ELEC. & COMM. EQUIP. 25	665.1	68.0	7.3	-410.6	22.7	797.3	1149.8



TABLE 1 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION S (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	INTERMEDIATE INPUTS(1-16) 17	NET EXPORTS 18	RE-EXPORTS 19	IMPORTS 20	INVENTORY CHANGE 21	OTHER FINAL DEMAND 22	TOTAL OUTPUT 23
RUBBER PRODUCTS 26	250.1	7.2	.6	-59.8	1.4	107.5	307.0
PETROLEUM PROD. 27	814.2	10.2	.3	-137.8	9.7	539.9	1236.5
OTHER CHEMICALS 28	1201.2	215.1	3.6	-395.4	17.3	414.3	1456.1
PRINTED MATTER 29	676.3	16.1	2.4	-144.7	6.4	298.7	855.1
OTH.MINERAL PROD.30	714.1	40.4	.9	-154.3	12.3	62.6	675.9
MISC. MFGR. PROD.31	361.7	40.4	10.5	-361.0	13.3	533.0	597.9
CONSTRUCTION 32	1052.4	.0	.0	.0	.0	5911.9	6964.3
TRADE & TRANSPORT33	3901.5	669.9	.0	-80.9	20.0	6016.3	10526.9
UTILITIES 34	794.1	18.1	.0	-15.9	-.3	476.4	1272.4
FINANCIAL SERVICES35	1822.8	19.7	.0	-83.4	.0	5097.2	6856.3
COMMUNICATIONS 36	604.9	24.9	.0	-17.6	.0	443.2	1055.4
BUSINESS SERVICES37	1290.0	8.7	.0	-85.1	.0	1469.8	2683.3
PERSONAL SERVICE 38	530.0	5.8	.0	-107.3	.0	1348.0	1776.5
ADVTG. & TRAVEL 39	1277.1	.0	.0	.0	.0	.0	1277.1
REPAIR & MAINT. 40	2015.4	.0	.0	.0	.0	.0	2015.4
NON-COMP.IMPORTS 41	209.0	-.0	.0	-301.5	2.9	89.0	.0
BAL.OF PAYMNT ADJ42	.0	798.9	.0	-934.4	.0	135.5	.0
COMMODITY TAXES 43	562.3	1.0	.0	515.0	14.9	1951.1	3044.3
SUBSIDIES 44	-311.4	.0	.0	.0	.0	.0	-311.4
INDIR.TAX&GOV.SER45	1928.1	.0	.0	.0	.0	-77.9	1850.2
WAGES & SALARIES 46	16432.1	.0	.0	.0	.0	4293.1	20725.2
NET-INC.UNINCORP.47	3683.1	.0	.0	.0	.0	.0	3683.1
SURPLUS 48	10051.3	.0	.0	.0	.0	566.0	10617.2
SUB TOTAL(41-48) 49	32554.5	799.9	.6	-720.9	17.9	6956.8	39608.7
TOTAL INPUTS 50	65217.0	7091.2	135.4	-7408.0	-44.3	39834.5	104825.7

TABLE 2 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION S (SEE CHAPTER 4)

INDUSTRY (COLUMNS) COMMODITY (ROWS)	1	2	3	4	5	6	7	8
	AGR. FORESTRY FISHING	MINING EX. COAL	FUEL MINES AND WELLS	FOOD, TOBACCO IND.	TEXTILE INDUSTRIES	WOOD AND FURN. IND.	PAPER INDUSTRIES	METAL INDUSTRIES
LIVE ANIMALS	.009407	.000000	.000000	.126963	.000000	.000000	.000000	.000000
GRAIN	.010388	.000000	.000000	.051368	.000000	.000000	.000000	.000000
FISH & FUR	.000463	.000000	.000000	.016952	.006043	.000000	.000000	.000000
FORESTRY PRODUCTS	.024883	.000000	.000000	.000031	.000016	.221732	.154299	.000059
OTHER AGR. PROD.	.017904	.000000	.000000	.136451	.006337	.000055	.000085	.000000
METAL ORES & CONC.	.000000	.000000	.000000	.000000	.000000	.000000	.000058	.154817
NON-METAL MINERALS	.000110	.003462	.001241	.000680	.000179	.000000	.004235	.002296
COAL	.000933	.001996	.000330	.001099	.001492	.000486	.008619	.011730
OIL & NAT. GAS	.000055	.019498	.029686	.000220	.000049	.000066	.003800	.000514
MEAT & DAIRY PROD.	.000592	.000000	.000000	.065158	.010842	.000006	.000073	.000000
ALL OTHER FOODS	.066580	.000000	.000260	.078522	.003279	.000591	.002151	.000400
BEVERAGES	.000000	.000000	.000000	.007301	.000005	.000176	.000000	.000000
TOBACCO	.000000	.000000	.000000	.013849	.000000	.000000	.000000	.000000
LEATHER & TEXTILES	.004979	.001550	.000001	.002681	.327470	.025055	.007897	.000257
CLOTHING	.000098	.000000	.000000	.000021	.045079	.000000	.000000	.000001
LUMBER	.000469	.000000	.000651	.000059	.000079	.091828	.019728	.000687
FURNITURE	.000000	.000000	.000000	.000000	.000016	.006652	.000000	.000150
OTHER WOOD PROD.	.001346	.000363	.000000	.001468	.001282	.024025	.000574	.001251
PAPER & PRODUCTS	.000667	.004500	.000000	.036671	.014245	.006718	.142306	.003269
IRON & STEEL PROD.	.002863	.007890	.003871	.018853	.001936	.029893	.007673	.148482
NON-FERROUS PROD.	.000000	.000219	.000024	.000022	.000247	.000835	.002848	.129077
MACHINERY & EQUIP.	.001782	.014734	.015946	.000334	.000627	.000126	.000475	.037719
VEHICLES & PARTS	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000426
OTHER TRANS. EQUIP.	.009885	.000666	.000156	.000000	.000000	.000000	.000000	.000211
ELEC. & COM. EQUIP.	.000208	.000000	.000000	.000000	.000155	.001262	.000000	.008066

TABLE 2 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION 5 (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	AGR. FORESTRY FISHING	MINING EX.COAL	FUEL MINES AND WELLS	TOBACCO IND.	FOOD, IND.	TEXTILE INDUSTRIES	WOOD AND FURN.IND.	PAPER INDUSTRIES	METAL INDUSTRIES
COMMODITY(ROWS)	1	2	3	4	5	6	7	8	
RUBBER PRODUCTS 26	.001645	.000000	.000000	.000000	.006902	.004970	.000130	.000988	
PETROLEUM PROD. 27	.044886	.011638	.008797	.004721	.002379	.007021	.011287	.005043	
OTHER CHEMICALS 28	.021759	.025852	.006004	.011507	.028053	.014256	.032845	.007427	
PRINTED MATTER 29	.000000	.000018	.000000	.001318	.000036	.000104	.002730	.000317	
OTH.MINERAL PROD.30	.000106	.001645	.000081	.006434	.000552	.005070	.002779	.006290	
MISC. MFR. PROD.31	.000302	.000000	.000000	.001110	.017711	.007844	.004761	.001056	
CONSTRUCTION 32	.020392	.010708	.012815	.002813	.002480	.004769	.004128	.005374	
TRADE & TRANSPORT33	.056345	.025410	.021714	.051285	.047308	.075628	.048627	.039022	
UTILITIES 34	.007024	.021358	.018424	.006192	.005814	.009272	.031930	.016226	
FINANCIAL SERVICE35	.040376	.013416	.175974	.008421	.016894	.014579	.009620	.009927	
COMMUNICATIONS 36	.003205	.001682	.004075	.002977	.004156	.004422	.003610	.004241	
BUSINESS SERVICES37	.009899	.014208	.029113	.007243	.006026	.004313	.004765	.004876	
PERSONAL SERVICE 38	.001216	.002730	.006236	.002984	.001953	.003106	.003857	.003801	
ADVTG. & TRAVEL 39	.001290	.002996	.011240	.038004	.022955	.011418	.009862	.012135	
REPAIR & MAINT. 40	.049231	.062508	.052503	.024135	.027105	.037512	.040175	.033385	
NON-COMP.IMPORTS 41	.000000	.000000	.000000	.022298	.022585	.000000	.000000	.000000	
BAL.OF PAYMNT ADJ42	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000	
COMMODITY TAXES 43	.006594	.003048	.002704	.002363	.000367	.001224	.000603	.000961	
SUBSIDIES 44	-.005168	-.008972	-.017688	-.001398	.000000	.000000	.000000	-.000063	
INDIR.TAX&GOV.SER45	.037877	.011637	.010923	.006292	.005601	.006600	.012946	.007777	
WAGES & SALARIES 46	.133649	.275633	.190922	.159530	.298027	.296873	.226914	.237825	
NET-INC.UNINCORP.47	.245658	.002973	.002510	.005191	.005612	.013246	.000250	.001781	
SURPLUS 48	.170102	.466634	.411486	.077879	.058109	.068269	.193360	.102198	
SUB TOTAL(41-48) 49	.588712	.750953	.600857	.272155	.390301	.386212	.434073	.350479	
TOTAL INPUTS 50	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	



TABLE 2 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION S (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	TRANSPORT & ELEC.EQUIP. 9	CHEM.RUBBER PETROL.IND. 10	MANUF.IND. 11	OTHER CONSTRUCTION 12	TRADE AND TRANSPORT 13	UTILITIES 14	COM.AND SERVICE 15	DUMMY INDUSTRIES 16
LIVE ANIMALS 1	.000000	.000142	.000000	.000000	.019669	.000000	.000000	.000000
GRAIN 2	.000000	.000000	.000000	.000000	.000070	.000000	.000000	.000000
FISH & FUR 3	.000000	.000000	.000000	.000000	.000000	.000000	.000130	.000116
FORESTRY PRODUCTS 4	.000004	.000044	.000108	.002457	.000296	.000000	.000000	.000000
OTHER AGR. PROD. 5	.000000	.000061	.000059	.001249	.000109	.000000	.004553	.003251
METAL ORES & CONC. 6	.000067	.000297	.006863	.000000	.000032	.000000	.000034	.000000
NON-METAL MINERALS 7	.000259	.007013	.017819	.009443	.000119	.000000	.000055	.000022
COAL 8	.001341	.003922	.003975	.000000	.000365	.005464	.000018	.000000
OIL & NAT. GAS 9	.000133	.236624	.000700	.000000	.000265	.000631	.000116	.000000
MEAT&DAIRY PROD. 10	.000002	.001734	.000058	.000000	.000791	.000000	.017783	.010366
ALL OTHER FOODS 11	.000001	.011281	.000411	.000000	.000644	.000000	.012285	.006941
BEVERAGES 12	.000000	.000723	.000000	.000039	.000000	.000000	.001638	.012456
TOBACCO 13	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
LEATHER&TEXTILES 14	.009260	.014103	.008771	.006964	.004184	.000000	.003110	.005209
CLOTHING 15	.000000	.000259	.000180	.000000	.001651	.000000	.000098	.001080
LUMBER 16	.001050	.000045	.002565	.023680	.000691	.001608	.000054	.000211
FURNITURE 17	.003711	.000000	.000015	.001731	.000034	.000000	.000053	.000000
OTHER WOOD PROD. 18	.000907	.000479	.003348	.034871	.000223	.000000	.000989	.000027
PAPER & PRODUCTS 19	.005438	.016289	.087966	.010757	.008670	.000000	.001691	.015154
IRON & STEEL PROD 20	.080044	.013224	.019730	.143121	.002115	.000000	.000262	.025491
NON-FERROUS PROD. 21	.040889	.004051	.015460	.005348	.000168	.000000	.000149	.000198
MACHINERY&EQUIP. 22	.032766	.002661	.001262	.035123	.002386	.001579	.000988	.091276
VEHICLES & PARTS 23	.140893	.000000	.000038	.001253	.002684	.000000	.000000	.027972
OTHER TRANS.EQUIP 24	.032266	.000098	.000000	.000000	.003845	.000000	.000000	.000374
ELEC.&COM.EQUIP. 25	.072493	.000037	.002841	.039717	.000435	.000000	.000894	.023588





TABLE 2 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION S (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	INTERMEDIATE INPUTS(1-16) 17	NET EXPORTS 18	RE-EXPORTS 19	IMPORTS 20	INVENTORY CHANGE 21	OTHER FINAL DEMAND 22
LIVE ANIMALS 1	.014456	.009338	.000000	.000000	.000000	.001839
GRAIN 2	.004972	.088061	.000000	.000000	.000000	.000006
FISH & FUR 3	.001687	.003375	.000000	.000000	.000000	.000146
FORESTRY PRODUCTS 4	.012000	.006050	.000000	.000000	.000000	.000960
OTHER AGR. PROD. 5	.013931	.015856	.000000	.000000	.000000	.010360
METAL ORES & CONC. 6	.011969	.073196	.000000	.000000	.000000	.000000
NON-METAL MINERALS 7	.002476	.021573	.000000	.000000	.000000	.000305
COAL 8	.001998	.001147	.000000	.000000	.000000	.001180
OIL & NAT. GAS 9	.012285	.029397	.000000	.000000	.000000	.003883
MEAT & DAIRY PROD. 10	.009815	.013244	.000000	.000000	.000000	.046297
ALL OTHER FOODS 11	.014192	.034849	.000000	.000000	.000000	.033500
BEVERAGES 12	.001579	.012506	.000000	.000000	.000000	.011456
TOBACCO 13	.001162	.003964	.000000	.000000	.000000	.005820
LEATHER & TEXTILES 14	.016237	.008206	.000000	.000000	.000000	.012454
CLOTHING 15	.001900	.001366	.000000	.000000	.000000	.025573
LUMBER 16	.005635	.050051	.000000	.000000	.000000	.000168
FURNITURE 17	.000551	.000325	.000000	.000000	.000000	.008994
OTHER WOOD PROD. 18	.005049	.005599	.000000	.000000	.000000	.000284
PAPER & PRODUCTS 19	.016641	.157693	.000000	.000000	.000000	.002586
IRON & STEEL PROD. 20	.036701	.020431	.000000	.000000	.000000	.001749
NON-FERROUS PROD. 21	.013361	.123464	.000000	.000000	.000000	-.001695
MACHINERY & EQUIP. 22	.014405	.012284	.000000	.000000	.000000	.021683
VEHICLES & PARTS 23	.009303	.006002	.000000	.000000	.000000	.029449
OTHER TRANS. EQUIP. 24	.002968	.027816	.000000	.000000	.000000	.018012
ELEC. & COM. EQUIP. 25	.010199	.009591	.000000	.000000	.000000	.020016

TABLE 2 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION 5 (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	INTERMEDIATE INPUTS(11-16) 17	NET EXPORTS		RE-EXPORTS		IMPORTS		INVENTORY CHANGE		OTHER FINAL DEMAND	
		18	19	20	21	22	23	24	25	26	27
RUBBER PRODUCTS 26	.003834	.001014	.000000	.000000	.000000	.002700					
PETROLEUM PROD. 27	.012485	.001441	.000000	.000000	.000000	.013554					
OTHER CHEMICALS 28	.018418	.030339	.000000	.000000	.000000	.010400					
PRINTED MATTER 29	.010370	.002269	.000000	.000000	.000000	.007498					
OTH.MINERAL PROD.30	.010950	.005690	.000000	.000000	.000000	.001572					
MISC. MFRG. PROD.31	.005547	.005701	.000000	.000000	.000000	.013380					
CONSTRUCTION 32	.016136	.000000	.000000	.000000	.000000	.148413					
TRADE & TRANSPORT33	.059823	.094475	.000000	.000000	.000000	.151033					
UTILITIES 34	.012176	.002547	.000000	.000000	.000000	.011960					
FINANCIAL SERVICES35	.027950	.002778	.000000	.000000	.000000	.127959					
COMMUNICATIONS 36	.009275	.003518	.000000	.000000	.000000	.011126					
BUSINESS SERVICES37	.019780	.001227	.000000	.000000	.000000	.036897					
PERSONAL SERVICE 38	.008127	.000818	.000000	.000000	.000000	.033841					
ADVTG. & TRAVEL 39	.019582	.000000	.000000	.000000	.000000	.000000					
REPAIR & MAINT. 40	.030902	.000000	.000000	.000000	.000000	.000000					
NON-COMP.IMPORTS 41	.003205	-.000007	.000000	.000000	.000000	.002234					
BAL.OF PAYMNT ADJ42	.000000	.112664	.000000	.000000	.000000	.003402					
COMMODITY TAXES 43	.008621	.000141	.000000	.000000	.000000	.048980					
SUBSIDIES 44	-.004774	.000000	.000000	.000000	.000000	.000000					
INDIR.TAX&GOV.SER45	.029565	.000000	.000000	.000000	.000000	-.001956					
WAGES & SALARIES 46	.251960	.000000	.000000	.000000	.000000	.107774					
NET-INC.UNINCORP.47	.056475	.000000	.000000	.000000	.000000	.000000					
SURPLUS 48	.154120	.000000	.000000	.000000	.000000	.014209					
SUB TOTAL(41-48) 49	.499172	.112798	.000000	.000000	.000000	.174643					
TOTAL INPUTS 50	1.000000	1.000000	.000000	.000000	.000000	1.000000					

TABLE 3 VALUES OF INDUSTRY OUTPUTS, 1961 - AGGREGATION S (SEE CHAPTER 4)

COMMODITY(COLUMNS)	LIVE ANIMALS	GRAIN	FISH AND FUR	FORESTRY PRODUCTS	OTHER AGR. PRODUCTS	METAL ORES & CONC.	NON-METAL MINERALS	COAL
INDUSTRY(ROWS)	1	2	3	4	5	6	7	8
				(millions of dollars)				
AGR.FORESTRY FISH.1	1108.0	468.2	123.1	834.2	1233.1	.0	.0	.0
MINING EX.COAL 2	.0	.0	.0	.0	.0	1064.3	266.7	.0
FUEL MINES&WELLS 3	.0	.0	.0	.0	.0	.0	.0	68.5
FOOD,TOBACCO IND. 4	.0	.4	.0	.0	.9	.0	.9	.0
TEXTILE IND. 5	.0	.0	.0	.0	.0	.0	.0	.0
WOOD&FURN.IND 6	.0	.0	.0	3.3	.0	.0	.0	.0
PAPER INDUSTRIES 7	.0	.0	.0	.0	.0	.0	.0	.0
METAL INDUSTRIES 8	.0	.0	.0	.0	.0	124.1	.1	.0
TRANS.&ELEC.EQUIP.9	.0	.0	.0	.0	.0	.0	.0	.0
CHEM.RUBBER PETR.10	.0	.0	.0	.0	.0	.8	.8	.0
OTHER MANUF.IND 11	.0	.0	.0	.0	.0	3.4	7.2	.0
CONSTRUCTION IND.12	.0	.0	.0	.0	.0	.0	.0	.0
TRADE & TRANSPORT13	.2	.0	.0	.0	2.4	.0	.0	.0
UTILITIES 14	.0	.0	.0	.5	.0	.0	.0	.0
COM.&SERVICE IND.15	.0	.0	.0	.0	.0	.0	.0	.0
DUMMY INDUSTRIES 16	.0	.0	.0	.0	.0	.0	.0	.0
TOT.COMMOD.OUTPUT17	1108.3	468.6	123.1	838.1	1236.5	1192.6	275.7	68.5



TABLE 3 VALUES OF INDUSTRY OUTPUTS, 1961 - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	OIL AND NAT. GAS 9	MEAT & DAIRY PROD. 10	ALL OTHER FOODS 11	BEVERAGES 12	TOBACCO 13	LEATHER & TEXTILES 14	CLOTHING 15	LUMBER 16
AGR.FORESTRY FISH.1	.0	43.3	10.4	.0	.0	.0	.0	.0
MINING EX.COAL 2	12.9	.0	.0	.0	.0	.0	.0	.0
FUEL MINES&WELLS 3	780.3	.0	.0	.0	.0	.0	.0	.0
FOOD,TOBACCO IND. 4	.0	2200.4	2214.8	605.5	331.3	.0	.0	.0
TEXTILE IND. 5	.0	.6	.0	.0	.0	1113.1	1050.6	.0
WOOD&FURN.IND 6	.0	.0	.0	.0	.0	3.0	.0	697.6
PAPER INDUSTRIES 7	.0	.0	.0	.0	.0	8.1	.1	4.7
METAL INDUSTRIES 8	.2	.0	.0	.0	.0	1.5	.0	.0
TRANS.&ELEC.EQUIP.9	.0	.0	.0	.0	.0	.0	.0	.0
CHEM.,RUBBER PETR.10	1.5	15.8	7.4	.0	.0	16.8	5.0	.0
OTHER MANUF.IND 11	.0	.0	.0	.0	.0	6.1	3.7	.0
CONSTRUCTION IND.12	.0	.0	.0	.0	.0	.0	.0	.0
TRADE & TRANSPORT13	6.6	260.1	11.0	.0	.0	34.6	10.8	1.4
UTILITIES 14	.0	.0	.0	.0	.0	.0	.0	.0
COM.&SERVICE IND.15	.0	.0	.0	.0	.0	.0	.0	.0
DUMMY INDUSTRIES 16	.0	.0	.0	.0	.0	.0	.0	.0
TOT.COMMOD.OUTPUT17	801.5	2520.2	2243.5	605.6	331.3	1183.3	1070.2	703.7

TABLE 3 VALUES OF INDUSTRY OUTPUTS, 1961 - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS)	FURNITURE 17	WOOD PROD. 18	OTHER PROD. 18	PAPER & PRODUCTS 19	IRON & STEEL PROD. 20	NON-FERROUS PROD. 21	MACHINERY & EQUIP. 22	VEHICLES & PARTS 23	OTHER EQUIP. 24
INDUSTRY(ROWS)									
AGR.FORESTRY FISH.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
MINING EX.COAL 2	.0	.0	.0	.0	.0	1.7	9.1	.0	.0
FUEL MINES&WELLS 3	.0	.0	.0	.0	.0	.8	7.2	.0	.0
FOOD,TOBACCO IND. 4	.0	.0	.0	1.7	.5	.0	2.7	.0	.0
TEXTILE IND. 5	2.5	.1	.1	8.6	.5	.1	3.1	.0	.0
WOOD&FURN.IND 6	329.0	347.5	.7	5.2	3.7	.1	3.7	.1	.9
PAPER INDUSTRIES 7	.1	.7	.7	2157.3	.7	.1	6.6	2.4	.0
METAL INDUSTRIES 8	19.7	.9	.9	2.6	2117.4	1557.6	881.9	19.7	23.4
TRANS.&ELEC.EQUIP.9	11.6	.2	.2	.0	54.9	9.6	109.5	1226.2	641.1
CHEM.RUBBER PETR.10	.5	1.0	1.0	4.9	4.1	.6	4.1	.0	2.0
OTHER MANUF.IND 11	3.3	1.1	1.1	24.0	6.1	5.6	26.5	2.0	16.0
CONSTRUCTION IND.12	.0	.0	.0	.0	.0	.0	.0	.0	.0
TRADE & TRANSPORT13	1.8	6.6	6.6	3.9	2.7	.3	2.1	.4	10.1
UTILITIES 14	.0	.0	.0	.0	.0	.0	.0	.0	.0
COM.&SERVICE IND.15	.0	.0	.0	.0	.0	.0	37.9	.0	.0
DUMMY INDUSTRIES 16	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT.COMMOD.OUTPUT17	368.5	358.1	358.1	2208.3	2190.6	1576.5	1094.3	1250.8	693.5

TABLE 3 VALUES OF INDUSTRY OUTPUTS, 1961 - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS)	ELEC. & COM. EQUIP. 25	RUBBER PRODUCTS 26	PETROLEUM PRODUCTS 27	OTHER CHEMICALS 28	PRINTED MATTER 29	OTH. MINERAL PROD. 30	MISC. MFG. PROD. 31	CONSTRUCTION 32
INDUSTRY(ROWS)								
AGR.FORESTRY FISH.1	.0	.0	.0	.0	.0	.0	1.1	.0
MINING EX.COAL 2	.0	.0	.0	.1	.0	2.1	.0	.0
FUEL MINES&WELLS 3	.0	.0	6.6	.0	.0	.0	.0	.0
FOOD,TOBACCO IND. 4	.0	.0	.0	24.9	.1	.0	2.9	.0
TEXTILE IND. 5	.0	2.4	.0	4.9	.0	2.4	8.9	.0
WOOD&FURN.IND 6	.5	.0	.1	1.5	.0	.3	6.0	.0
PAPER INDUSTRIES 7	.2	.7	2.0	4.6	13.3	.5	11.6	.0
METAL INDUSTRIES 8	20.8	.7	4.7	18.6	.7	3.2	12.7	.0
TRANS.&ELEC.EQUIP.9	1107.9	1.1	.1	7.5	.4	1.3	19.8	.0
CHEM.RUBBER PETR.10	.7	296.2	1223.1	1381.3	2.0	4.0	17.2	.0
OTHER MANUF.IND 11	17.8	3.7	.0	9.7	838.1	656.8	507.1	.0
CONSTRUCTION IND.12	.0	.0	.0	.0	.0	.0	.0	6964.3
TRADE & TRANSPORT13	1.9	2.2	.0	3.0	.5	5.4	10.6	.0
UTILITIES 14	.0	.0	.0	.0	.0	.0	.0	.0
COM.&SERVICE IND.15	.0	.0	.0	.0	.0	.0	.0	.0
DUMMY INDUSTRIES 16	.0	.0	.0	.0	.0	.0	.0	.0
TOT.COMMOD.OUTPUT17	1149.8	307.0	1236.5	1456.1	855.1	675.9	597.9	6964.3

TABLE 3 VALUES OF INDUSTRY OUTPUTS, 1961 - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	TRADE & TRANSPORT 33	UTILITIES 34	FINANCIAL SERVICES 35	COMMUNI- CATIONS 36	BUSINESS SERVICES 37	PERSONAL SERVICES 38	ADVTG. & TRAVEL 39	REPAIR & MAINT. 40
AGR.FORESTRY FISH.1	17.2	.3	199.9	.0	31.5	.0	.0	.0
MINING EX.COAL 2	.1	.6	15.2	.0	6.2	.0	.0	.0
FUEL MINES&WELLS 3	.0	2.3	10.3	.0	.7	.0	.0	.0
FOOD,TOBACCO IND. 4	78.0	.0	5.0	.0	4.3	.0	.0	.0
TEXTILE IND. 5	16.3	.0	2.1	.0	1.2	.0	.0	.0
WOOD&FURN.IND 6	17.6	.1	2.2	.0	1.1	2.4	.0	.0
PAPER INDUSTRIES 7	7.0	4.0	2.0	.0	2.0	.0	.0	.0
METAL INDUSTRIES 8	69.3	12.9	9.3	.0	8.5	20.3	.0	.0
TRANS.&ELEC.EQUIP.9	137.0	.3	1.8	.0	27.7	14.4	.0	.0
CHEM.RUBBER PETR.10	57.9	4.4	21.3	.0	5.9	.2	.0	.0
OTHER MANUF.IND 11	60.0	.0	5.1	.0	14.1	2.8	.0	.0
CONSTRUCTION IND.12	.0	.0	20.3	.0	32.5	.0	.0	.0
TRADE & TRANSPORT13	10018.0	2.5	56.5	2.4	169.5	.0	.0	.0
UTILITIES 14	7.7	1245.0	.8	.0	8.5	.0	.0	.0
COM.&SERVICE IND.15	40.5	.0	6504.6	1053.0	2369.7	1736.5	.0	.0
DUMMY INDUSTRIES 16	.0	.0	.0	.0	.0	.0	1277.1	2015.4
TOT.COMMOD.OUTPUT17	10526.9	1272.4	6856.3	1055.4	2683.3	1776.5	1277.1	2015.4















TABLE 5 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS)	LIVE ANIMALS	GRAIN	FISH AND FUR	FORESTRY PRODUCTS	OTHER AGR. PRODUCTS	METAL ORES & CONC.	NON-METAL MINERALS	COAL
INDUSTRY(ROWS)	1	2	3	4	5	6	7	8
NET-EXPORTS	66.2	624.5	23.9	42.9	112.4	519.0	153.0	8.1
RE-EXPORTS	.1	.0	.9	1.0	.9	.0	4.3	.0
IMPORTS	-8.6	-40.6	-18.0	-14.7	-202.9	-126.5	-56.4	-119.4
INVENTORY CHANGE	34.5	-439.8	.5	-12.0	4.7	19.4	1.3	2.4
OTHER FINAL DEMAND	73.2	.2	5.8	38.3	412.7	.0	12.1	47.0
AGR.FORESTRY FISH.1	1.113316	1.112966	1.113549	1.109639	1.110923	.010982	.012612	.019521
MINING EX.COAL 2	.010105	.010111	.010105	.010131	.010108	.927703	.982421	.012563
FUEL MINES&WELLS 3	.030109	.030109	.030112	.030082	.030085	.038697	.039057	1.042187
FOOD,TOBACCO IND. 4	.099216	.100228	.099215	.098912	.099897	.009936	.013893	.017016
TEXTILE IND. 5	.016023	.016024	.016023	.016157	.016024	.007514	.007910	.005945
WOOD&FURN.IND 6	.006811	.006813	.006811	.011299	.006841	.003839	.003641	.004711
PAPER INDUSTRIES 7	.015634	.015677	.015632	.015664	.015680	.014564	.016776	.009440
METAL INDUSTRIES 8	.050318	.050348	.050319	.050504	.050337	.210958	.061418	.059661
TRANS.&ELEC.EQUIP.9	.030043	.030042	.030044	.030018	.030035	.019799	.016650	.017847
CHEM.,RUBBER PETR.10	.110972	.110965	.110983	.110834	.110871	.061581	.065199	.040444
OTHER MANUF.IND 11	.031352	.031370	.031351	.031414	.031376	.033149	.056687	.029599
CONSTRUCTION IND.12	.034710	.034703	.034711	.034685	.034700	.020116	.019927	.031837
TRADE & TRANSPORT13	.118859	.118692	.118652	.118778	.120651	.072319	.069176	.072713
UTILITIES 14	.018189	.018194	.018189	.018945	.018197	.033174	.032186	.029378
COM.&SERVICE IND.15	.116271	.116271	.116266	.116212	.116321	.081238	.080223	.272270
DUMMY INDUSTRIES 16	.096557	.096594	.096552	.096591	.096622	.093885	.092940	.099527

TABLE 5 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION S (SEE CHAPTER 4)

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TABLE 5 IMPACT TABLE WITHOUT IMPORT LEAKAGES -- AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	OIL AND NAT. GAS 9	MEAT & DAIRY PROD. 10	ALL OTHER FOODS 11	BEVERAGES 12	TOBACCO 13	LEATHER & TEXTILES 14	CLOTHING 15	LUMBER 16
NET-EXPORTS	208.5	93.9	247.1	88.7	28.1	58.2	9.7	354.9
RE-EXPORTS	.0	1.9	2.8	.2	.0	4.0	.9	.1
IMPORTS	-368.4	-88.1	-303.7	-65.7	-9.2	-451.8	-101.4	-39.2
INVENTORY CHANGE	5.5	28.1	37.3	23.1	4.7	17.8	18.4	13.7
OTHER FINAL DEMAND	154.7	1844.2	1334.5	456.4	231.8	496.1	1018.7	6.7
AGR.FORESTRY FISH.1	.019555	.424062	.458525	.458927	.458942	.052624	.051400	.293410
MINING EX.COAL 2	.028727	.015228	.015937	.015956	.015956	.011492	.010985	.016315
FUEL MINES&WELLS 3	1.015947	.028231	.028383	.027544	.027545	.034108	.031750	.025061
FOOD.TOBACCO IND. 4	.016929	1.081431	1.219235	1.234355	1.234400	.039665	.040289	.036961
TEXTILE IND. 5	.006097	.017732	.017519	.017484	.017484	1.463157	1.525864	.051638
WOOD&FURN.IND 6	.004699	.008181	.008518	.008548	.008548	.011385	.008442	1.133395
PAPER INDUSTRIES 7	.009658	.060133	.065260	.065803	.065804	.052946	.045776	.032914
METAL INDUSTRIES 8	.059928	.079146	.083190	.083507	.083508	.052406	.049959	.094175
TRANS.&ELEC.EQUIP.9	.017914	.027823	.027947	.027955	.027955	.020689	.020482	.026458
CHEM.RUBBER PETR.10	.043071	.095766	.095134	.091537	.091538	.120658	.111149	.087183
OTHER MANUF.IND 11	.029679	.050594	.052517	.052676	.052677	.068822	.067807	.049541
CONSTRUCTION IND.12	.031651	.027129	.026398	.026305	.026304	.018213	.017713	.024212
TRADE & TRANSPORT13	.081430	.261114	.168068	.163697	.163663	.181029	.162883	.164606
UTILITIES 14	.029367	.023956	.024428	.024429	.024429	.022071	.021640	.025745
COM.&SERVICE IND.15	.267832	.123885	.121820	.121615	.121614	.113471	.112499	.109604
DUMMY INDUSTRIES 16	.099587	.139088	.142503	.142877	.142878	.122446	.122549	.114415



TABLE 5 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION S (SEE CHAPTER 4)

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TABLE 5 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS)	FURNITURE 17	WOOD PROD. 18	OTHER PROD. 18	PAPER & PRODUCTS 19	IRON & STEEL PROD. 20	NON-FERROUS PROD. 21	MACHINERY & EQUIP. 22	VEHICLES & PARTS 23	OTHER TRANS. EQUIP. 24
INDUSTRY(ROWS)									
NET-EXPORTS	2.3	39.7		1118.2	144.9	875.5	87.1	42.6	197.2
RE-EXPORTS	.2	.6		.8	5.0	11.1	26.6	6.6	41.1
IMPORTS	-35.2	-32.5		-108.2	-430.2	-117.0	-827.2	-598.7	-469.3
INVENTORY CHANGE	7.0	9.7		9.2	7.7	3.1	4.7	20.6	13.4
OTHER FINAL DEMAND	358.3	11.3		103.0	69.7	-67.5	863.7	1173.1	717.5
AGR.FORESTRY FISH.1	.265208	.287111		.214953	.016098	.015375	.020097	.019230	.019847
MINING EX.COAL 2	.028351	.016814		.016995	.211096	.215805	.190077	.053572	.055763
FUEL MINES&WELLS 3	.026388	.025696		.042328	.039804	.040153	.044902	.030400	.031210
FOOD.TOBACCO IND. 4	.034777	.036520		.033230	.013250	.012866	.017608	.014317	.014477
TEXTILE IND. 5	.058381	.051413		.030431	.009349	.008649	.015418	.026744	.026335
WOOD&FURN.IND 6	1.021492	1.109492		.034216	.009944	.007985	.012436	.013165	.014393
PAPER INDUSTRIES 7	.026183	.027656		1.150697	.019951	.019486	.029124	.027996	.027705
METAL INDUSTRIES 8	.177630	.097108		.063058	1.474189	1.500193	1.260992	.349489	.361392
TRANS.&ELEC.EQUIP.9	.069216	.027170		.020434	.082006	.057461	.176654	1.320956	1.247555
CHEM.RUBBER PETR.10	.087334	.089802		.103634	.061316	.059029	.066066	.087358	.089922
OTHER MANUF.IND 11	.059857	.052745		.058194	.051798	.052236	.075531	.068142	.090202
CONSTRUCTION IND.12	.023923	.024360		.022296	.022025	.022034	.023106	.019976	.020217
TRADE & TRANSPORT13	.163618	.180272		.127247	.116571	.115035	.116506	.130177	.143883
UTILITIES 14	.026445	.025608		.055293	.041278	.041627	.038510	.025361	.025743
COM.&SERVICE IND.15	.109678	.110376		.099862	.102790	.102552	.140748	.111312	.112078
DUMMY INDUSTRIES 16	.115079	.114603		.109691	.115235	.115052	.114892	.122056	.122362

TABLE 5 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS) PRIMARY(ROWS)	FURNITURE 17	WOOD PROD. 18	PAPER & PRODUCTS 19	IRON & STEEL PROD. 20	NON-FERROUS PROD. 21	MACHINERY & EQUIP. 22	VEHICLES & PARTS 23	OTHER TRANS. EQUIP. 24
NON-COMP. IMPORTS 17	.002886	.002785	.002295	.001101	.001061	.001416	.001742	.001772
BAL. OF PAYMNT ADJ18	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 19	.010750	.011076	.008981	.008863	.008838	.008922	.009101	.009325
SUBSIDIES 20	-.005593	-.005862	-.004884	-.005442	-.005462	-.005612	-.004069	-.004335
INDIR. TX. & GOV. SER21	.037421	.038032	.040865	.031492	.031393	.035081	.034516	.034585
WAGES & SALARIES 22	.581695	.579141	.476643	.568285	.566701	.564414	.644035	.640069
NET-INC. UNINCORP. 23	.107610	.115132	.078164	.031121	.030821	.037256	.032448	.033899
SURPLUS 24	.265230	.259695	.397936	.364580	.366647	.358523	.282227	.284686
SUB TOTAL (17-24) 25	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000

TABLE 5 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY (COLUMNS)	COM. EQUIP. 25	ELEC. & 26	RUBBER PRODUCTS 27	PETROLEUM PRODUCTS 28	OTHER CHEMICALS 29	PRINTED MATTER 30	MISC. MFRG. PROD. 31	CONSTRUCTION 32
INDUSTRY (ROWS)								
NET-EXPORTS	68.0	7.2	10.2	215.1	16.1	40.4	40.4	.0
RE-EXPORTS	7.3	.6	.3	3.6	2.4	.9	10.5	-.0
IMPORTS	-410.6	-59.8	-137.8	-395.4	-144.7	-154.3	-361.0	.0
INVENTORY CHANGE	22.7	1.4	9.7	17.3	6.4	12.3	13.3	.0
OTHER FINAL DEMAND	797.3	107.5	539.9	414.3	298.7	62.6	533.0	5911.9
AGR. FORESTRY FISH. 1	.019259	.031153	.030670	.038531	.039823	.037071	.046136	.039182
MINING EX. COAL 2	.053840	.028944	.029200	.030903	.043750	.047430	.045405	.057324
FUEL MINES & WELLS 3	.030604	.285427	.297207	.281187	.034862	.035542	.041279	.025331
FOOD, TOBACCO IND. 4	.014366	.037284	.037574	.057666	.018837	.018631	.025596	.014613
TEXTILE IND. 5	.026680	.044895	.032959	.037614	.025300	.030618	.048065	.022896
WOOD & FURN. IND. 6	.013556	.006785	.006709	.007939	.014285	.014355	.024974	.072913
PAPER INDUSTRIES 7	.027289	.041173	.039150	.041831	.139802	.121918	.131906	.033769
METAL INDUSTRIES 8	.348973	.092086	.093905	.107842	.107095	.112694	.140252	.307402
TRANS. & ELEC. EQUIP. 9	1.298871	.029258	.024685	.031728	.027752	.029878	.071099	.083918
CHEM. RUBBER PETR. 10	.088100	1.166849	1.193335	1.148246	.101864	.105128	.129162	.074838
OTHER MANUF. IND. 11	.082906	.067730	.054797	.062065	1.110998	1.101782	.968730	.110280
CONSTRUCTION IND. 12	.019993	.033263	.033597	.033127	.019311	.019423	.020098	1.016658
TRADE & TRANSPORT 13	.131376	.158313	.151445	.153390	.123780	.131104	.142693	.173480
UTILITIES 14	.025458	.039135	.039478	.039088	.033336	.032899	.032982	.018983
COM. & SERVICE IND. 15	.111597	.159807	.161449	.158820	.126402	.126715	.126032	.114821
DUMMY INDUSTRIES 16	.122377	.136321	.136328	.136261	.144436	.144299	.141442	.075043



TABLE 5 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION S (SEE CHAPTER 4)

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TABLE 5 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	TRADE & TRANSPORT 33	UTILITIES 34	FINANCIAL SERVICES 35	COMMUNI- CATIONS 36	BUSINESS SERVICES 37	PERSONAL SERVICES 38	ADVTG. & TRAVEL 39	REPAIR & MAINT. 40
NET-EXPORTS	669.9	18.1	19.7	24.9	8.7	5.8	.0	.0
RE-EXPORTS	-0	.0	-0	-0	-0	-0	-0	-0
IMPORTS	-80.9	-15.9	-83.4	-17.6	-85.1	-107.3	.0	.0
INVENTORY CHANGE	20.0	-3	.0	.0	.0	.0	.0	.0
OTHER FINAL DEMAND	6016.3	476.4	5097.2	443.2	1469.8	1348.0	.0	.0
AGR.FORESTRY FISH.1	.043927	.009100	.062513	.030491	.044528	.030563	.054626	.054626
MINING EX.COAL 2	.011423	.009039	.010421	.007544	.011968	.010355	.042932	.042932
FUEL MINES&WELLS 3	.019618	.017369	.012400	.009081	.011540	.009669	.043058	.043058
FOOD,TOBACCO IND. 4	.026010	.005917	.047999	.046097	.045595	.045469	.063220	.063220
TEXTILE IND. 5	.018198	.003491	.010643	.009816	.011414	.010009	.028979	.028979
WOOD&FURN.IND 6	.007531	.007367	.007160	.006587	.007912	.008175	.010612	.010612
PAPER INDUSTRIES 7	.022789	.009935	.012445	.011637	.014294	.012012	.064319	.064319
METAL INDUSTRIES 8	.060841	.048917	.042081	.038467	.050684	.057886	.231446	.231446
TRANS.&ELEC.EQUIP.9	.043831	.010846	.016536	.015375	.030991	.026585	.113829	.113829
CHEM.&RUBBER PETR.10	.068864	.025776	.037595	.031011	.038211	.032001	.145895	.145895
OTHER MANUF.IND 11	.042880	.017234	.030777	.029473	.037210	.031736	.262742	.262742
CONSTRUCTION IND.12	.032198	.060038	.059017	.057319	.066215	.056562	.033784	.033784
TRADE & TRANSPORT13	1.068315	.040752	.072909	.064032	.131876	.063038	.344224	.344224
UTILITIES 14	.021289	1.211143	.010663	.009933	.015209	.010457	.025504	.025504
COM.&SERVICE IND.15	.144917	.071169	1.080701	1.130101	1.015062	1.109280	.342007	.342007
DUMMY INDUSTRIES 16	.114687	.043271	.078044	.076799	.080475	.077682	1.111617	1.111617

TABLE 5 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY (COLUMNS)	TRADE & TRANSPORT 33	UTILITIES 34	FINANCIAL SERVICES 35	COMMUNI- CATIONS 36	BUSINESS SERVICES 37	PERSONAL SERVICES 38	ADVTG. & TRAVEL 39	REPAIR & MAINT. 40
PRIMARY (ROWS)								
NON-COMP. IMPORTS 17	.002090	.000477	.002567	.002502	.002509	.002482	.003893	.003893
RAL. OF PAYMNT ADJ18	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 19	.021631	.005865	.008460	.008101	.009413	.008094	.043508	.043508
SUBSIDIES 20	-.019065	-.003126	-.009302	-.009242	-.009718	-.009121	-.009495	-.009495
INDIR. TX. & GOV. SER21	.044364	.033108	.118755	.122230	.113051	.120396	.055181	.055181
WAGES & SALARIES 22	.557575	.306253	.367464	.365671	.385396	.370466	.501039	.501039
NET-INC. UNINCORP. 23	.107458	.018006	.170443	.168552	.161558	.165735	.089373	.089373
SURPLUS 24	.285945	.639417	.341613	.342186	.337792	.341948	.316499	.316499
SUB TOTAL (17-24) 25	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000

TABLE 6 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	LIVE ANIMALS 1	GRAIN 2	FISH AND FUR 3	FORESTRY PRODUCTS 4	OTHER AGR. PRODUCTS 5	METAL ORES & CONC. 6	NON-METAL MINERALS 7	COAL 8
NET-EXPORTS	66.2	624.5	23.9	42.9	112.4	519.0	153.0	8.1
RE-EXPORTS	.1	.0	.9	1.0	.9	.0	4.3	.0
IMPORTS	-8.6	-40.6	-18.0	-14.7	-202.9	-126.5	-56.4	-119.4
INVENTORY CHANGE	34.5	-439.8	.5	-12.0	4.7	19.4	1.3	2.4
OTHER FINAL DEMAND	73.2	.2	5.8	38.3	412.7	.0	12.1	47.0
IMPORT COEF.	.008102	.124907	.147219	.016900	.152289	.158091	.298327	.664191
RE-EXPORT COEF.	.001222	.000040	.035891	.023846	.008168	.000089	.027155	.000246
AGR.FORESTRY FISH.1	1.097362	1.096974	1.097593	1.093692	1.094961	.008266	.009811	.016340
MINING EX.COAL 2	.005112	.005115	.005112	.005128	.005114	.916538	.975810	.006759
FUEL MINES&WELLS 3	.013864	.013863	.013865	.013847	.013852	.019394	.020205	1.023586
FOOD,TOBACCO IND. 4	.082874	.083870	.082870	.082611	.083568	.007469	.011432	.014021
TEXTILE IND. 5	.009282	.009282	.009281	.009364	.009283	.004161	.004460	.003325
WOOD&FURN.IND 6	.005460	.005461	.005460	.009888	.005490	.002885	.002772	.003752
PAPER INDUSTRIES 7	.011302	.011338	.011300	.011327	.011344	.011150	.013276	.006842
METAL INDUSTRIES 8	.028784	.028804	.028784	.028931	.028799	.174225	.036249	.034155
TRANS.&ELEC.EQUIP.9	.016129	.016128	.016129	.016119	.016127	.011193	.009391	.010298
CHEM.RUBBER PETR.10	.086318	.086307	.086326	.086193	.086235	.045026	.048684	.029795
OTHER MANUF.IND 11	.021755	.021768	.021754	.021797	.021775	.024400	.048205	.021517
CONSTRUCTION IND.12	.032467	.032458	.032467	.032441	.032457	.018244	.018269	.030125
TRADE & TRANSPORT13	.107480	.107306	.107272	.107390	.109274	.063888	.061754	.065717
UTILITIES 14	.015561	.015565	.015560	.016313	.015569	.030330	.029737	.027134
COM.&SERVICE IND.15	.102559	.102552	.102553	.102496	.102610	.068723	.068745	.257888
DUMMY INDUSTRIES 16	.086979	.087010	.086974	.087007	.087047	.085936	.086073	.093029



TABLE 6 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS)	LIVE ANIMALS	GRAIN	FISH AND FUR	FORESTRY PRODUCTS	OTHER AGR. PRODUCTS	METAL ORES & CONC.	NON-METAL MINERALS	COAL
PRIMARY(ROWS)	1	2	3	4	5	6	7	8
NON-COMP. IMPORTS 17	.002779	.002801	.002779	.002774	.002795	.000672	.000804	.000869
BAL.OF PAYMNT ADJ18	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 19	.013181	.013179	.013179	.013162	.013196	.007566	.007667	.008439
SUBSIDIES 20	-.008548	-.008545	-.008546	-.008528	-.008566	-.010177	-.010693	-.021139
INDIR.TX.&GOV.SER21	.057476	.057463	.057479	.057371	.057435	.022793	.022717	.041926
WAGES&SALARIES 22	.284354	.284405	.284301	.285269	.284883	.376747	.369160	.330618
NET-INC.UNINCORP.23	.293158	.293054	.293199	.292299	.292704	.019983	.020411	.047795
SURPLUS 24	.278527	.278519	.278530	.278525	.278492	.513120	.530780	.533651
SUB TOTAL(17-24) 25	.920927	.920877	.920922	.920873	.920940	.930704	.940846	.542159

TABLE 6 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS)	9	10	11	12	13	14	15	16
INDUSTRY(ROWS)	OIL AND NAT. GAS	MEAT & DAIRY PROD.	ALL OTHER FOODS	BEVERAGES	TOBACCO	LEATHER & TEXTILES	CLOTHING	LUMBER
NET-EXPORTS	208.5	93.9	247.1	88.7	28.1	58.2	9.7	354.9
RF-EXPORTS	.0	1.9	2.8	.2	.0	4.0	.9	.1
IMPORTS	-368.4	-88.1	-303.7	-65.7	-9.2	-451.8	-101.4	-39.2
INVENTORY CHANGE	5.5	28.1	37.3	23.1	4.7	17.8	18.4	13.7
OTHER FINAL DEMAND	154.7	1844.2	1334.5	456.4	231.8	496.1	1018.7	6.7
IMPORT COEF.	.383179	.034308	.130990	.112464	.029431	.284683	.086564	.100925
RE-EXPORT COEF.	.000139	.020086	.011152	.002564	.000427	.064767	.088703	.000234
AGR.FORESTRY FISH.1	.016371	.374306	.402941	.402745	.402758	.038172	.036636	.277649
MINING EX.COAL 2	.022903	.008091	.008478	.008486	.008487	.005232	.004838	.008968
FUEL MINES&WELLS 3	.997227	.012032	.011842	.011329	.011329	.013459	.011957	.010652
FOOD,TOBACCO IND. 4	.013934	1.053860	1.188673	1.203519	1.203563	.029609	.030033	.029303
TEXTILE IND. 5	.003420	.010169	.009821	.009792	.009792	1.277767	1.332809	.031227
WOOD&FURN.IND 6	.003739	.006305	.005543	.006565	.006566	.008585	.005646	1.117001
PAPER INDUSTRIES 7	.007029	.050044	.054398	.054869	.054870	.039570	.032194	.026698
METAL INDUSTRIES 8	.034438	.048759	.051456	.051682	.051683	.027256	.024995	.061992
TRANS.&ELEC.EQUIP.9	.010332	.015241	.015212	.015213	.015213	.010545	.010381	.015290
CHEM.RUBBER PETR.10	.032227	.070144	.069232	.064658	.064659	.081946	.071944	.063605
OTHER MANUF.IND 11	.021569	.035920	.037205	.037321	.037322	.042878	.041344	.034005
CONSTRUCTION IND.12	.029935	.023618	.022641	.022537	.022537	.014026	.013471	.021640
TRADE & TRANSPORT13	.074397	.244099	.149911	.145473	.145438	.148915	.129941	.149849
UTILITIES 14	.027114	.020221	.020484	.020480	.020480	.016783	.016289	.022395
COM.&SERVICE IND.15	.253480	.105177	.102178	.101984	.101983	.086894	.085656	.094184
DUMMY INDUSTRIES 16	.093058	.125035	.127525	.127857	.127858	.098829	.098424	.102664

TABLE 6 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION S (SEE CHAPTER 4)

COMMODITY(COLUMNS)	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495
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TABLE 6 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS)	FURNITURE 17	OTHER WOOD PROD. 18	PAPER & PRODUCTS 19	IRON & STEEL PROD. 20	NON-FERROUS PROD. 21	MACHINERY & EQUIP. 22	VEHICLES & PARTS 23	OTHER TRANS. EQUIP. 24
INDUSTRY(ROWS)								
NET-EXPORTS	2.3	39.7	1118.2	144.9	875.5	87.1	42.6	197.2
RE-EXPORTS	.2	.6	.8	5.0	11.1	26.6	6.6	41.1
IMPORTS	-35.2	-32.5	-108.2	-430.2	-117.0	-827.2	-598.7	-469.3
INVENTORY CHANGE	7.0	9.7	9.2	7.7	3.1	4.7	20.6	13.4
OTHER FINAL DEMAND	358.3	11.3	103.0	69.7	-67.5	863.7	1173.1	717.5
IMPORT COEF.	.087293	.091100	.089735	.172084	.131260	.442860	.328909	.463163
RE-EXPORT COEF.	.067851	.014422	.000693	.033566	.012545	.233829	.133974	.172425
AGR.FORESTRY FISH.1	.250458	.271617	.201748	.011423	.010772	.015013	.012981	.013635
MINING EX.COAL 2	.017992	.009359	.009769	.159647	.163707	.144601	.028987	.031162
FUEL MINES&WELLS 3	.011060	.011053	.018080	.014479	.014840	.020802	.010834	.011371
FOOD,TOBACCO IND. 4	.027420	.028951	.026320	.009270	.008928	.013387	.009364	.009565
TEXTILE IND. 5	.037986	.031230	.019700	.004771	.004301	.009518	.014261	.014117
WOOD&FURN.IND 6	1.006480	1.093427	.029671	.007758	.005851	.010146	.009623	.010920
PAPER INDUSTRIES 7	.019843	.021501	1.129817	.013961	.013555	.022698	.019283	.018945
METAL INDUSTRIES 8	.136851	.064770	.039175	1.335954	1.361368	1.133927	.227108	.242191
TRANS.&ELEC.EQUIP.9	.053464	.015906	.011449	.057773	.035447	.144695	1.184011	1.117584
CHEM.RUBBER PETR.10	.063512	.066298	.076291	.040349	.038329	.044432	.056045	.059032
OTHER MANUF.IND 11	.043731	.037226	.044242	.035125	.035734	.058231	.042723	.065030
CONSTRUCTION IND.12	.021183	.021791	.019621	.017900	.017924	.019106	.015195	.015533
TRADE & TRANSPORT13	.148086	.165583	.114073	.097097	.095728	.097160	.102654	.117077
UTILITIES 14	.022780	.022261	.051085	.034507	.034856	.032071	.018483	.018990
COM.&SERVICE IND.15	.093279	.094926	.083308	.078918	.078790	.117359	.083036	.084302
DUMMY INDUSTRIES 16	.102393	.102879	.098265	.095872	.095807	.095930	.096772	.097712



TABLE 6 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION S (SEE CHAPTER 4)

COMMODITY(COLUMNS)	FURNITURE 17	WOOD PROD. 18	OTHER PRODUCTS 19	IRON & STEEL PROD. 20	NON-FERROUS PROD. 21	MACHINERY & EQUIP. 22	VEHICLES & PARTS 23	OTHER TRANS. EQUIP. 24
PRIMARY(ROWS)								
NON-COMP.IMPORTS 17	.002075	.001978	.001693	.000731	.000699	.001006	.001088	.001128
BAL.OF PAYMNT ADJ18	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 19	.009671	.010067	.008009	.007296	.007280	.007393	.007141	.007411
SUBSIDIES 20	-.004770	-.005094	-.003977	-.004005	-.004023	-.004255	-.002805	-.003082
INDIR.TX.EGOV.SER21	.033267	.034129	.036864	.025573	.025508	.029274	.027025	.027263
WAGES&SALARIES 22	.525342	.527646	.429431	.479450	.478518	.477154	.521229	.520735
NET-INC.UNINCORP.23	.099879	.107432	.071187	.024472	.024219	.030605	.024119	.025715
SURPLUS 24	.227536	.225383	.358905	.293005	.295064	.290604	.211006	.214686
SUB TOTAL(17-24) 25	.892999	.901542	.902111	.826521	.827265	.831781	.788803	.793858

TABLE 6 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	ELEC. & COM. EQUIP. 25	RUBBER PRODUCTS 26	PETROLEUM PRODUCTS 27	OTHER CHEMICALS 28	PRINTED MATTER 29	OTH.MINERAL PROD. 30	MISC. MFRG. PROD. 31	CONSTRUCTION 32
NET-EXPORTS	68.0	7.2	10.2	215.1	16.1	40.4	40.4	.0
RE-EXPORTS	7.3	.6	.3	3.6	2.4	.9	10.5	-.0
IMPORTS	-410.6	-59.8	-137.8	-395.4	-144.7	-154.3	-361.0	.0
INVENTORY CHANGE	22.7	1.4	9.7	17.3	6.4	12.3	13.3	.0
OTHER FINAL DEMAND	797.3	107.5	539.9	414.3	298.7	62.6	533.0	5911.9
IMPORT COEF.	.271568	.165022	.100851	.239937	.145028	.194455	.386028	.000000
RE-EXPORT COEF.	.096962	.076528	.024351	.016664	.130049	.020702	.205597	.000000
AGR.FORESTRY FISH.1	.013008	.022459	.022004	.029057	.032323	.029683	.038295	.031685
MINING EX.COAL 2	.029321	.016292	.016476	.017849	.028482	.032037	.029663	.033951
FUEL MINES&WELLS 3	.010969	.163437	.172597	.160889	.014209	.014653	.018049	.009757
FOOD,TOBACCO IND. 4	.009422	.028229	.028457	.048258	.014090	.013906	.020500	.010322
TEXTILE IND. 5	.014245	.029690	.019165	.023384	.014804	.019512	.034766	.012945
WOOD&FURN.IND 6	.010030	.004756	.004699	.005892	.011532	.011644	.022114	.063765
PAPER INDUSTRIES 7	.018486	.032408	.030547	.033097	.122079	.104502	.115413	.025134
METAL INDUSTRIES 8	.227797	.054277	.056030	.068771	.070705	.075786	.099536	.210659
TRANS.&ELEC.EQUIP.9	1.164045	.017285	.013141	.019415	.016258	.018136	.055256	.051960
CHEM.RUBBER PETR.10	.056842	1.110535	1.136436	1.092497	.072231	.075526	.099148	.051903
OTHER MANUF.IND 11	.057416	.048425	.035727	.042909	1.078515	1.069417	.938047	.079804
CONSTRUCTION IND.12	.015242	.027197	.027464	.027083	.016414	.016514	.017034	1.013167
TRADE & TRANSPORT13	.104059	.135184	.128284	.130322	.108839	.116086	.126884	.154106
UTILITIES 14	.018618	.032145	.032430	.032113	.028905	.028464	.028399	.013741
COM.&SERVICE IND.15	.083466	.115486	.116539	.114847	.107850	.108060	.106408	.093751
DUMMY INDUSTRIES 16	.097276	.113527	.113408	.113534	.130678	.130476	.126953	.057586

TABLE 6 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION S (SEE CHAPTER 4)

COMMODITY(COLUMNS)	ELEC. & COM. EQUIP. 25	RUBBER PRODUCTS 26	PETROLEUM PRODUCTS 27	OTHER CHEMICALS 28	PRINTED MATTER 29	OTH.MINERAL PROD. 30	MISC. MFG. PROD. 31	CONSTRUCTION 32
PRIMARY(ROWS)								
NON-COMP.IMPORTS 17	.001104	.008564	.008486	.008748	.001951	.002072	.002635	.001068
BAL.OF PAYMNT ADJ18	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 19	.007197	.008266	.008168	.008268	.009697	.009774	.009695	.035040
SUBSIDIES 20	-.002837	-.006265	-.006324	-.006213	-.003241	-.003386	-.003645	-.003829
INDIR.TX.&GOV.SER21	.027062	.029580	.029604	.029683	.029628	.029547	.029762	.028602
WAGES&SALARIES 22	.521474	.374211	.369116	.373909	.538447	.538629	.530098	.547745
NET-INC.UNINCORP.23	.024429	.034497	.033927	.035718	.042231	.042079	.043791	.067975
SURPLUS 24	.211888	.347901	.352314	.347196	.267377	.266775	.266940	.176702
SUB TOTAL(17-24) 25	.790318	.796754	.795292	.797309	.886089	.885491	.879277	.853303

TABLE 6 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	TRADE & TRANSPORT 33	UTILITIES 34	FINANCIAL SERVICES 35	COMMUNI- CATIONS 36	BUSINESS SERVICES 37	PERSONAL SERVICES 38	ADVTG. & TRAVEL 39	REPAIR & MAINT. 40
NET-EXPORTS	669.9	18.1	19.7	24.9	8.7	5.8	.0	.0
RE-EXPORTS	-0	.0	-0	-0	-0	-0	-0	-0
IMPORTS	-80.9	-15.9	-83.4	-17.6	-85.1	-107.3	.0	.0
INVENTORY CHANGE	20.0	-3	.0	.0	.0	.0	.0	.0
OTHER FINAL DEMAND	6016.3	476.4	5097.2	443.2	1469.8	1348.0	.0	.0
IMPORT COEF.	.008141	.012536	.012048	.016750	.030849	.057152	.000000	.000000
RE-EXPORT COEF.	.000000	.000332	.000000	.000000	.000000	.000000	.000000	.000000
AGR.FORESTRY FISH.1	.039797	.007553	.056643	.024963	.038878	.025019	.042417	.042417
MINING EX.COAL 2	.006351	.005774	.006747	.004106	.007744	.006165	.021086	.021086
FUEL MINES&WELLS 3	.009192	.008399	.006313	.003859	.005167	.004064	.017167	.017167
FOOD,TOBACCO IND. 4	.022710	.004700	.042107	.040516	.040049	.039903	.052054	.052054
TEXTILE IND. 5	.011943	.001961	.006440	.005825	.006969	.005916	.016359	.016359
WOOD&FURN.IND 6	.006392	.006333	.006058	.005531	.006704	.007063	.007344	.007344
PAPER INDUSTRIES 7	.018553	.008431	.009579	.008894	.011192	.009158	.048315	.048315
METAL INDUSTRIES 8	.039126	.035828	.026449	.023646	.032790	.040718	.129006	.129006
TRANS.&ELEC.EQUIP.9	.031020	.006598	.010027	.009291	.022721	.019241	.068077	.068077
CHEM.RUBBER PETR.10	.054881	.020415	.028099	.022289	.028299	.022912	.101516	.101516
OTHER MANUF.IND 11	.032900	.012580	.022689	.021597	.028560	.023571	.202831	.202831
CONSTRUCTION IND.12	.030688	.059070	.057836	.056208	.064968	.055382	.028421	.028421
TRADE & TRANSPORT13	1.060408	.037098	.067024	.058483	.125585	.057128	.315548	.315548
UTILITIES 14	.019225	1.206627	.009237	.008597	.013650	.009006	.018320	.018320
COM.&SERVICE IND.15	.134131	.064984	1.071770	1.121546	1.005781	1.100366	.303990	.303990
DUMMY INDUSTRIES 16	.108059	.039858	.073028	.072085	.075087	.072611	1.086163	1.086163



TABLE 6 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION 5 (SEE CHAPTER 4)

COMMODITY(COLUMNS)	TRADE & TRANSPORT 33	UTILITIES 34	FINANCIAL SERVICES 35	COMMUNI- CATIONS 36	BUSINESS SERVICES 37	PERSONAL SERVICES 38	ADVTG. & TRAVEL 39	REPAIR & MAINT. 40
PRIMARY(ROWS)								
NON-COMP. IMPORTS 17	.001766	.000370	.002264	.002216	.002204	.002191	.002987	.002987
BAL.OF PAYMNT ADJ18	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 19	.021082	.005574	.008026	.007693	.008952	.007658	.041448	.041448
SUBSIDIES 20	-.018602	-.002820	-.008963	-.008931	-.009361	-.008787	-.008019	-.008019
INDIR. TX. EGGOV. SER21	.042062	.031822	.116881	.120454	.111081	.118520	.046853	.046853
WAGES&SALARIES 22	.528684	.291241	.346240	.345657	.362283	.348738	.388965	.388965
NET-INC.UNINCORP.23	.104097	.016353	.167113	.165395	.158189	.162484	.077841	.077841
SURPLUS 24	.265125	.625837	.326361	.327990	.321423	.326559	.241439	.241439
SUB TOTAL(17-24) 25	.944214	.968376	.957921	.960473	.954771	.957363	.791513	.791513

T A B L E 7

Valuation Conversion Coefficients, 1961 - Aggregation S  
(See Chapter 4 for definitions and qualifications)

Commodity	Trade & Transportation Margins to F.O.B. Point of Shipment as a pro- portion of Trade of Canada Exports	Transportation Margins from F.O.B. Point of Shipment as a proportion of Trade of Canada Exports	Transportation Margins to Canadian Border as a proportion of Trade of Canada Imports	Import Duties as a proportion of Trade of Canada Imports	Trade & Transportation Margins as a proportion of Other Final Demand at Purchasers' Prices	Commodity Taxes as a proportion of Other Final Demand at Purchasers' Prices
	1	2	3	4	5	6
1 Live Animals	.010167	.018154	.114720	.063048	.035640	-
2 Grain	.117111	-	.022727	.060275	.079051	-
3 Fish & Fur	.020942	.026621	.058414	.022130	.388486	-
4 Forestry Products	.065710	.010204	.058092	-	.192366	-
5 Other Agr. Prod.	.078387	.002447	.253005	.051069	.313656	-
6 Metal Ores & Conc.	.065924	.018694	.119372	.000026	-	-
7 Non-Metal Minerals	.038820	.047152	.603772	.019179	.352919	-
8 Coal	.051969	.537171	.608138	.041837	.385092	-
9 Oil & Nt. Gas	-	.245291	.230439	.000601	.432555	-
10 Meat & Dairy Prod.	.038649	.005136	.055668	.061767	.194526	.002008
11 All other Foods	.036748	.003288	.083286	.089530	.257787	.008942
12 Beverages	.000517	.016390	.042890	1.108994	.339244	.228415
13 Tobacco	-	.028589	.011472	.342403	.142160	.545053
14 Leather & textiles	.019740	.022764	.042310	.186161	.332344	.062244
15 Clothing	.014827	.018905	.030888	.260672	.382249	.057216
16 Lumber	.083248	.051647	.171469	.012250	.121483	-
17 Furniture	.004423	.014475	.024695	.222116	.283814	.064988
18 Other Wood Prod.	.055847	.010218	.075186	.135395	.195268	.042195
19 Paper & Products	.031476	.041837	.058058	.157131	.326592	.057390
20 Iron & Steel Prod.	.033187	.023198	.061912	.126060	.229057	.051980
21 Non-Ferrous Prod.	.028100	.013536	.093242	.042574	-.000504	-
22 Machinery & Equip.	.141353	.011963	.012722	.107573	.179798	.040506
23 Vehicles & Parts	.115128	.004393	.018790	.083344	.235624	.087262
24 Other Trans. Equip.	.033017	.011510	.012045	.008240	.130169	.033231
25 Elec. & Com. Equip.	.056898	.020110	.011843	.157725	.221488	.081453
26 Rubber Products	.202621	.000307	.021034	.184628	.296059	.062138
27 Petroleum Prod.	.099725	.019687	.286545	.064770	.319158	.240440
28 Other Chemicals	.053366	.010674	.057169	.076972	.372791	.060173
29 Printed Matter	.066017	.010429	.011425	.049136	.187419	.020958
30 Oth. Mineral Prod.	.066686	.017940	.097659	.111285	.331959	.057818
31 Misc. Mfgr. Prod.	.102160	.004146	.028482	.120918	.317965	.055912
32 Construction	-	-	-	-	-	-
33 Trade & Transport	-	-	-	-	-	-
34 Utilities	.065687	-	.270335	-	-	-
35 Financial Service	-	-	-	-	-	-
36 Communications	-	-	-	-	-	-
37 Business Services	-	-	-	-	-	-
38 Personal Service	-	-	-	-	-	.019186
39 Advtg. & Travel	-	-	-	-	-	-
40 Repair & Maint.	-	-	-	-	-	-
41 Non-Comp. Imports	.080756	-	.211814	.039720	.302889	-

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	1	2	3	4	5	6	7	8
	AGRICULTURE	FORESTRY	FISHING & HUNTING	METAL MINES	NON-METAL MINES	COAL MINES	PETROLEUM & NATURAL GAS	MEAT,POULTRY PROCESSORS
(millions of dollars)								
AGRICULTURAL PROD.1	152.1	1.4	.0	.0	.0	.0	.0	696.1
FORESTRY PRODUCTS 2	11.1	90.2	.0	.0	.0	.0	.0	.0
FISH AND FUR 3	.0	.0	1.9	.0	.0	.0	.0	.0
METAL ORES & CONC.4	.0	.0	.0	.0	.0	.0	.0	.0
NON-METAL MINERALS5	.2	.0	.2	3.3	1.5	.0	1.1	.9
COAL 6	3.7	.1	.0	1.6	1.1	.3	.0	.8
OIL AND NAT.GAS 7	.2	.0	.0	23.8	3.1	.0	26.0	.2
MEAT PRODUCTS 8	2.4	.0	.0	.0	.0	.0	.0	212.0
DAIRY PRODUCTS 9	.0	.0	.0	.0	.0	.0	.0	1.3
FRUIT & VEG.PROD.10	.0	.0	.0	.0	.0	.0	.0	.1
FEED,FLR.CEREALS 11	256.5	6.1	.0	.0	.0	.0	.2	.9
BAKERY PRODUCTS 12	.0	.0	.0	.0	.0	.0	.0	.0
SUGAR,CONFECT. 13	.7	.0	.0	.0	.0	.0	.0	.5
OTHER FOOD PROD. 14	7.8	.0	.0	.0	.0	.0	.0	24.9
SOFT DRINKS 15	.0	.0	.0	.0	.0	.0	.0	.0
ALCOHOLIC BEV. 16	.0	.0	.0	.0	.0	.0	.0	.0
TOBACCO PRODUCTS 17	.0	.0	.0	.0	.0	.0	.0	.0
RUBBER PRODUCTS 18	6.7	.0	.0	.0	.0	.0	.0	.0
LEATHER PRODUCTS 19	.0	.0	.0	.0	.0	.0	.0	.0
SYNTHT.TEXTILES 20	.0	.0	.0	.0	.0	.0	.0	.1
COTTON,YARN,CLOTH21	.0	.3	1.9	.0	.0	.0	.0	.1
KNITTED PRODUCTS 22	.0	.0	.0	.0	.0	.0	.0	.1
CLOTHING 23	.4	.0	.0	.0	.0	.0	.0	.0
OTHER TEXTILES 24	14.1	1.6	2.4	.5	1.7	.0	.0	1.0
SAWMILL PROD. 25	.2	.3	1.4	.0	.0	.6	.0	.1

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	AGRICULTURE 1	FORESTRY 2	FISHING & HUNTING 3	METAL MINES 4	NON-METAL MINES 5	COAL MINES 6	PETROLEUM & MEAT,POULTRY NATURAL GAS PROCESSORS 7 8
FURNITURE, FIXTURES 26	.0	.0	.0	.0	.0	.0	.0
OTHER WOOD PROD. 27	5.5	.0	.0	.0	.5	.0	1.7
PULP AND PAPER 28	.0	.0	.0	.0	.0	.0	2.0
OTHER PAPER PROD. 29	2.7	.0	.0	.0	6.2	.0	20.1
PRINTED MATTER 30	.0	.0	.0	.0	.0	.0	.0
STEEL MILL PROD. 31	.0	.0	.0	1.2	.0	.3	.0
SMELT. & REF. PROD. 32	.0	.0	.0	.2	.0	.0	.0
OTH. PRIMARY METAL 33	.0	.0	.0	8.8	.2	.0	.0
STRUCTURAL METAL 34	.0	.0	.0	.0	.0	.0	.0
METAL STAMPINGS 35	.0	.0	.2	.8	.0	.0	6.1
OTHER METAL PROD. 36	6.0	5.4	.1	.0	.0	.0	.0
MACHINERY (NES) 37	37.5	4.1	2.9	17.4	3.0	.9	.3
AIRCRAFT & PARTS 38	1.0	.0	.0	.0	.0	.0	.0
MOTOR VEHICLES 39	.0	.0	.0	.0	.0	.0	.0
VEHICLE PARTS 40	.0	.0	.0	.0	.0	.0	.0
OTH. TRANSP. EQUIP. 41	.0	.0	1.9	.9	.0	.1	.0
ELEC. APPLIANCES 42	.0	.0	.0	.0	.0	.0	.0
ELEC. IND. EQUIP. 43	.0	.0	.0	.0	.0	.0	.0
CON. EQUIP., WIRE 44	.0	.0	.8	.0	.0	.0	.0
OTHER ELEC. PROD. 45	.0	.0	.0	.0	.0	.0	.0
CLAY, LIME, CEMENT 46	.2	.1	.0	2.2	.1	.0	.0
A.O. NON-METALLIC 47	.0	.0	.2	.0	.0	.0	.2
PETR. PROD. 48	154.1	22.5	6.1	8.0	8.0	.7	2.0
PLASTIC, SYN. RESIN 49	.0	.0	.1	.0	.0	.0	3.6
PAINT & VARNISH 50	.0	.0	.0	.0	.0	.0	.0



TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	AGRICULTURE 1	FORESTRY 2	FISHING & HUNTING 3	METAL MINES 4	NON-METAL MINES 5	COAL MINES 6	PETROLEUM & NATURAL GAS 7	MEAT,POULTRY PROCESSORS 8
COMMODITY(ROWS)	1	2	3	4	5	6	7	8
PHARM.SOAP,TOILET51	.0	.0	.0	.0	.0	.0	.0	.6
OTHER CHEM PROD. 52	87.2	1.0	.2	29.4	6.3	.8	3.6	.7
MISC. MFG. PROD. 53	.2	.0	1.0	.0	.0	.0	.0	.5
CONSTRUCTION 54	58.5	18.0	6.5	12.4	2.4	.4	10.8	2.7
TRADE, WH.&RETAIL55	105.6	9.6	3.4	10.4	4.8	.8	6.4	24.9
TRANSPORT,STORAGE56	75.1	31.3	4.4	13.6	6.2	.8	11.0	29.7
COMMUNICATIONS 57	10.4	2.5	.2	1.5	.8	.1	3.4	3.8
UTILITIES 58	26.9	1.6	.1	22.9	6.6	3.2	13.0	6.1
FIN.INSUR.RL.EST.59	94.3	67.7	2.3	14.0	4.5	2.2	152.1	2.7
BUSINESS SERVICE 60	4.0	3.1	.2	11.5	2.5	.3	23.4	1.1
ACCOM. MEALS 61	.0	.0	.0	.0	.0	.0	.0	.0
OTHER SERVICES 62	3.6	34.3	.0	4.2	5.1	1.2	6.1	4.7
OFFICE SUPPLIES 63	5.0	2.1	.0	1.4	.4	.2	3.5	1.5
ADVTG. AND TRAVEL64	.0	5.3	.0	2.5	1.7	.2	9.6	11.9
OPERATING SUPPL. 65	106.2	87.1	.0	60.0	24.4	6.0	36.3	23.3
NON-COMP.IMPORTS 66	.0	.0	.0	.0	.0	.0	.0	.2
BAL.OF PAYMNT ADJ67	.0	.0	.0	.0	.0	.0	.0	.0
COMMODITY TAXES 68	21.4	4.5	.9	2.6	1.6	.1	2.3	.7
SUBSIDIES 69	-20.7	.0	-.4	-12.3	-.0	-15.5	.0	.0
INDIR.TAX&GOV.SER70	135.5	17.9	.8	10.6	5.5	.1	9.4	3.8
WAGES & SALARIES 71	239.0	286.3	18.7	302.7	77.4	44.4	122.9	150.3
NET-INC.UNICORP. 72	925.6	31.7	42.5	1.1	3.0	.1	2.1	2.4
SURPLUS 73	579.2	85.3	27.9	548.6	94.9	23.5	337.2	34.7
SUB TOTAL (66-73) 74	1880.0	425.8	90.4	853.3	182.3	52.8	473.9	192.1
TOTAL INPUTS 75	3120.1	821.4	128.9	1105.7	273.4	72.1	804.5	1281.6

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	DAIRY FACTORIES 9	FRUIT&VEG. CANNERS 10	FEED, FLOUR CERFAL MFG 11	BISCUITS & BAKERIES IND. 12	SUGAR AND CONFECTIONERY 13	OTHER FOOD IND. 14	SOFT DRINK MFG. 15	ALCOHOLIC BEVERAGE MFG 16
AGRICULTURAL PROD.1	497.7	55.5	236.1	2.4	18.3	95.8	.0	17.8
FORESTRY PRODUCTS 2	.1	.0	.0	.0	.0	.0	.0	.0
FISH AND FUR 3	.0	.0	.6	.0	.0	92.2	.0	.0
METAL ORES & CONC.4	.0	.0	.0	.0	.0	.0	.0	.0
NON-METAL MINERALS5	.2	.3	1.1	.4	.3	.6	.0	.0
COAL 6	1.2	1.1	.3	.2	.7	.7	.1	.9
OIL AND NAT.GAS 7	.2	.0	.1	.3	.1	.2	.0	.1
MEAT PRODUCTS 8	.8	13.4	15.5	18.8	.2	11.7	.2	.7
DAIRY PRODUCTS 9	64.8	1.6	1.4	5.6	3.7	3.4	.0	.0
FRUIT & VEG.PROD.10	2.6	20.4	.4	11.4	.8	3.5	.0	.5
FEED,FLR.CEREALS 11	.1	.3	38.2	60.3	.8	10.1	.0	2.7
BAKERY PRODUCTS 12	.3	.0	.0	.3	.2	.2	.0	.0
SUGAR, CONFECT. 13	4.8	11.1	5.1	18.9	23.1	9.5	14.1	1.0
OTHER FOOD PROD. 14	5.5	4.1	41.7	21.7	5.1	58.5	.9	25.0
SOFT DRINKS 15	.2	.1	.0	.0	.0	.0	18.7	.0
ALCOHOLIC BEV. 16	.0	.0	2.1	.0	.0	.6	.1	18.1
TOBACCO PRODUCTS 17	.0	.0	.0	.0	.0	.0	.0	.0
RUBBER PRODUCTS 18	.0	.0	.0	.0	.0	.0	.0	.0
LEATHER PRODUCTS 19	.0	.0	.0	.0	.0	.0	.0	.0
SYNTHET. TEXTILES 20	.0	.0	.0	.0	.0	.0	.0	.0
COTTON, YARN, CLOTH21	.1	.0	.2	.0	.0	.2	.0	.0
KNITTED PRODUCTS 22	.0	.0	.0	.0	.0	.0	.0	.0
CLOTHING 23	.0	.0	.0	.0	.0	.0	.0	.0
OTHER TEXTILES 24	.1	.0	10.4	.0	1.0	1.4	.0	.0
SAWMILL PROD. 25	.0	.0	.1	.0	.0	.0	.0	.0

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY (COLUMNS)	DAIRY FACTORIES 9	FRUIT&VEG. CANNERS 10	FEED,FLOUR CEREAL MFG BAKERIES 11	BISCUITS IND. 12	SUGAR AND CONFECTIONERY 13	OTHER FOOD IND. 14	SOFT DRINK MFG. 15	ALCOHOLIC BEVERAGE MFG 16
COMMODITY(ROWS)								
FURNITURE, FIXTURES 26	.0	.0	.0	.0	.0	.0	.0	.0
OTHER WOOD PROD. 27	1.3	.0	.0	.0	.0	1.5	.0	2.7
PULP AND PAPER 28	1.0	.2	1.1	1.7	1.8	4.0	.0	.4
OTHER PAPER PROD. 29	23.1	15.7	13.1	31.1	15.2	24.9	1.5	17.5
PRINTED MATTER 30	.0	.0	.0	.0	.1	.0	.9	5.2
STEEL MILL PROD. 31	.0	.0	.6	.0	.0	1.3	.0	.0
SMELT. & REF. PROD. 32	.0	.0	.0	.0	.0	.0	.0	.0
OTH. PRIMARY METAL 33	.0	.0	.0	.0	.0	.1	.0	.0
STRUCTURAL METAL 34	.0	.0	.0	.0	.0	.0	.0	.0
METAL STAMPINGS 35	10.9	47.7	3.8	.2	1.0	12.9	6.4	10.9
OTHER METAL PROD. 36	.0	.0	.0	.0	.0	.0	.0	.0
MACHINERY (NES) 37	.2	.2	.2	.1	.2	.2	.0	.2
AIRCRAFT & PARTS 38	.0	.0	.0	.0	.0	.0	.0	.0
MOTOR VEHICLES 39	.0	.0	.0	.0	.0	.0	.0	.0
VEHICLE PARTS 40	.0	.0	.0	.0	.0	.0	.0	.0
OTH. TRANSP. EQUIP 41	.0	.0	.0	.0	.0	.0	.0	.0
ELEC. APPLIANCES 42	.0	.0	.0	.0	.0	.0	.0	.0
ELEC. IND. EQUIP. 43	.0	.0	.0	.0	.0	.0	.0	.0
COM. EQUIP., WIRE 44	.0	.0	.0	.0	.0	.0	.0	.0
OTHER ELEC. PROD. 45	.0	.0	.0	.0	.0	.0	.0	.0
CLAY, LIME, CEMENT 46	.0	.0	.0	.0	.0	.0	.0	.0
A.O. NON-METALLIC 47	3.6	9.2	.0	.0	.1	4.7	.4	17.0
PETR. PROD. 48	7.5	1.1	1.3	5.8	1.1	2.8	1.8	2.2
PLASTIC, SYN. RESIN 49	1.1	.2	.0	9.7	1.2	1.1	.0	.4
PAINT & VARNISH 50	.0	.0	.0	.0	.0	.1	.0	.0

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY (COLUMNS)	DAIRY FACTORIES 9	FRUIT&VEG. CANNERS 10	FEED, FLOUR CEREAL MFG 11	BISCUITS BAKERIES IND. 12	SUGAR AND CONFECTIONERY 13	OTHER FOOD IND. 14	SOFT DRINK MFG. 15	ALCOHOLIC BEVERAGE MFG 16
COMMODITY (ROWS)								
PHARM., SOAP, TOILETS 1	2.6	1.3	6.3	2.6	.8	14.8	.1	.0
OTHER CHEM. PROD. 52	.6	2.4	1.0	.6	1.9	4.3	3.2	2.0
MISC. MFG. PROD. 53	.6	.2	.2	.0	.4	.7	.0	.0
CONSTRUCTION 54	2.6	1.0	1.1	1.3	.9	2.1	.7	1.7
TRADE, WH. & RETAIL 55	9.3	10.0	11.9	13.5	6.7	12.8	2.7	7.7
TRANSPORT, STORAGE 56	13.3	9.6	58.6	13.1	7.9	28.2	2.4	10.4
COMMUNICATIONS 57	2.3	1.2	1.8	1.5	.8	2.4	.7	1.2
UTILITIES 58	6.1	2.0	4.1	3.6	1.7	4.2	1.1	4.3
FIN. INSUR. & L. EST. 59	7.0	3.8	3.3	8.6	3.1	6.4	3.2	3.6
BUSINESS SERVICE 60	2.0	1.1	.6	5.2	1.2	3.2	.8	12.0
ACCOM. MEALS 61	.0	.0	.0	.0	.0	.0	.0	.0
OTHER SERVICES 62	7.6	3.1	1.7	2.9	1.0	2.7	.7	1.9
OFFICE SUPPLIES 63	1.5	.7	1.2	1.0	.5	1.4	.6	1.1
ADVTG. AND TRAVEL 64	20.7	17.4	16.4	15.8	8.5	38.5	18.5	41.2
OPERATING SUPPL. 65	22.0	7.5	8.3	12.4	7.6	17.6	3.9	14.6
NON-COMP. IMPORTS 66	.0	.2	.0	.0	67.5	53.5	.0	.7
BAL. OF PAYMNT ADJ 67	.0	.0	.0	.0	.0	.0	.0	.0
COMMODITY TAXES 68	4.3	.4	.7	3.9	.1	.6	1.1	1.0
SUBSIDIES 69	-.9	.0	-6.5	.0	.0	-.2	.0	.0
INDIR. TAX & GOV. SERV 70	4.8	2.1	2.6	3.6	2.0	4.3	2.1	7.2
WAGES & SALARIES 71	132.8	59.4	59.9	136.0	53.6	101.3	51.1	83.5
NET-INC. UNICORP. 72	5.8	.5	3.7	12.8	.5	.7	1.8	.0
SURPLUS 73	44.3	29.3	15.1	34.3	33.0	51.1	35.5	118.2
SUB TOTAL (66-73) 74	191.3	91.9	75.4	190.7	156.7	211.4	91.6	210.7
TOTAL INPUTS 75	916.7	335.4	565.5	461.6	274.6	692.7	175.4	435.8



TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	TOBACCO PROD.IND. 17	RUBBER PROD.,MFG 18	LEATHER PROD.,MFG. 19	SYNTHETIC TEXTILE MILLS 20	COTTON YARN, CLOTH MILLS 21	KNITTING MILLS 22	CLOTHING INDUSTRIES 23	OTHER TEXTILE IND. 24
COMMODITY(ROWS)								
AGRICULTURAL PROD.1	103.5	.0	.0	.0	.0	.0	10.1	4.0
FORESTRY PRODUCTS 2	.0	.0	.0	.0	.0	.0	.0	.0
FISH AND FUR 3	.0	.0	.0	.0	.0	.0	13.2	.2
METAL ORES & CONC.4	.0	.0	.0	.0	.0	.0	.0	.0
NON-METAL MINERALS5	.0	.5	.1	.0	.0	.0	.0	.3
COAL 6	.1	1.3	.5	.2	1.0	.4	.1	1.0
OIL AND NAT.GAS 7	.0	.3	.0	.0	.0	.0	.0	.0
MEAT PRODUCTS 8	1.6	.0	24.0	.0	.0	.0	.0	.0
DAIRY PRODUCTS 9	.0	.0	.0	.0	.0	.0	.0	.0
FRUIT & VEG.PROD.10	.0	.0	.0	.0	.0	.0	.0	.0
FEED,FLR.CEREALS 11	.0	.0	.0	.0	.3	.0	.0	.0
BAKERY PRODUCTS 12	.0	.0	.0	.0	.0	.0	.0	.0
SUGAR,CONFECT. 13	.5	.0	.0	.0	.0	.0	.0	.0
OTHER FOOD PROD. 14	.0	.3	.5	2.9	.9	.0	.9	1.7
SOFT DRINKS 15	.0	.0	.0	.0	.0	.0	.0	.0
ALCOHOLIC BEV. 16	.0	.0	.0	.0	.0	.0	.0	.0
TOBACCO PRODUCTS 17	75.8	.0	.0	.0	.0	.0	.0	.0
RUBBER PRODUCTS 18	.0	8.7	10.3	1.5	.7	.5	.5	1.7
LEATHER PRODUCTS 19	.0	2.8	61.4	.0	.0	.6	.5	.2
SYNTHET.TEXTILES 20	.0	1.9	.1	59.7	20.9	47.7	67.3	22.8
COTTON,YARN,CLOTH21	.0	27.7	5.7	4.0	43.3	23.5	114.2	44.8
KNITTED PRODUCTS 22	.0	.0	.5	.0	.0	10.6	37.1	1.2
CLOTHING 23	.0	.8	.6	2.7	.9	5.3	35.3	5.7
OTHER TEXTILES 24	.0	5.6	4.1	4.2	8.0	21.9	96.0	75.4
SAWMILL PROD. 25	.1	.0	.2	.0	.0	.0	.0	.0

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	TOBACCO PROD.IND. 17	RUBBER PROD. MFG 18	LEATHER PROD.MFG. 19	SYNTHETIC TEXTILE MILLS 20	COTTON YARN, CLOTH MILLS 21	KNITTING MILLS 22	CLOTHING INDUSTRIES 23	OTHER TEXTILE IND. 24
FURNITURE, FIXTRS 26	.0	.0	.0	.0	.0	.0	.0	.0
OTHER WOOD PROD. 27	.9	.1	.8	.0	.0	.0	.0	2.0
PULP AND PAPER 28	2.9	.5	1.5	5.5	.3	.3	.6	2.4
OTHER PAPER PROD. 29	23.3	3.6	3.6	1.9	1.9	3.2	5.8	4.3
PRINTED MATTER 30	.9	.0	.0	.0	.0	.0	.0	.0
STEEL MILL PROD. 31	.0	.3	.2	.0	.0	.0	.0	.0
SMELT. & REF. PROD. 32	.0	1.5	.0	.0	.0	.0	.0	.5
OTH. PRIMARY METAL 33	.0	.1	.0	.0	.0	.0	.0	.1
STRUCTURAL METAL 34	.0	.1	.0	.1	.0	.0	.2	.3
METAL STAMPINGS 35	1.1	.8	.2	.1	.0	.0	.0	.2
OTHER METAL PROD. 36	.0	3.7	2.2	.0	.0	.0	.0	.8
MACHINERY (NES) 37	.3	.7	.2	.4	.2	.1	.3	.2
AIRCRAFT & PARTS 38	.0	.3	.0	.0	.0	.0	.0	.0
MOTOR VEHICLES 39	.0	.0	.0	.0	.0	.0	.0	.0
VEHICLE PARTS 40	.0	.0	.0	.0	.0	.0	.0	.0
OTH. TRANSP. EQUIP 41	.0	.0	.0	.0	.0	.0	.0	.0
ELEC. APPLIANCES 42	.0	.0	.0	.0	.3	.0	.0	.0
ELEC. IND. EQUIP. 43	.0	.0	.0	.0	.0	.0	.0	.0
COM. EQUIP., WIRE 44	.0	.0	.0	.0	.0	.0	.0	.0
OTHER ELEC. PROD. 45	.0	.0	.0	.0	.0	.0	.0	.0
CLAY, LIME, CEMENT 46	.0	.0	.1	.0	.0	.0	.0	.0
A.O. NON-METALLIC 47	.0	.2	.0	.4	.0	.0	.0	.7
PETR. PROD. 48	.3	1.2	.4	1.9	.5	.4	.6	1.4
PLASTIC, SYN. RESIN 49	.0	4.1	.1	3.7	.1	.0	.4	3.1
PAINT & VARNISH 50	.0	1.4	.3	.3	.0	.0	.0	.2

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	TOBACCO PROD.IND. 17	RUBBER PROD. MFG 18	LEATHER PROD.MFG. 19	SYNTHETIC TEXTILE MILLS 20	COTTON YARN, CLOTH MILLS 21	KNITTING MILLS 22	CLOTHING INDUSTRIES 23	OTHER TEXTILE IND. 24
COMMODITY(ROWS)								
PHARM.SOAP,TOILET51	.0	.0	.0	.0	.0	.0	.0	.6
OTHER CHEM PROD. 52	.0	49.6	7.8	23.2	5.4	1.8	.9	14.2
MISC. MFG. PROD. 53	3.5	2.1	8.9	.3	.0	.6	25.6	3.9
CONSTRUCTION 54	1.3	.9	.6	1.2	1.1	.4	.7	1.5
TRADE, WH.&RETAIL55	5.2	7.0	13.5	3.4	4.1	3.7	35.7	14.3
TRANSPORT,STORAGE56	2.9	5.9	3.8	4.0	3.9	2.8	8.6	7.1
COMMUNICATIONS 57	.6	2.1	1.4	1.0	.5	1.0	3.5	1.8
UTILITIES 58	.7	3.5	1.5	2.3	2.8	1.1	2.2	3.0
FIN.INSUR.RL.EST.59	4.3	6.0	3.6	4.5	1.2	5.5	17.9	4.7
BUSINESS SERVICE 60	1.6	1.5	1.3	.5	.3	1.3	2.7	1.1
ACCOM. MEALS 61	.0	.0	.0	.0	.0	.0	.0	.0
OTHER SERVICES 62	.7	.8	3.9	.7	1.1	.6	1.9	2.2
OFFICE SUPPLIES 63	.3	1.7	.9	.7	.4	.5	2.3	1.3
ADVIG. AND TRAVEL64	19.2	12.7	12.1	3.0	1.6	4.9	18.1	11.1
OPERATING SUPPL. 65	5.3	9.4	9.1	9.3	6.1	4.8	10.4	14.4
NON-COMP.IMPORTS 66	.0	18.8	.1	1.1	45.9	.1	.0	2.9
BAL.OF PAYMNT ADJ67	.0	.0	.0	.0	.0	.0	.0	.0
COMMODITY TAXES 68	.0	.1	.2	.1	.0	.2	.2	.2
SUBSIDIES 69	.0	.0	.0	.0	.0	.0	.0	.0
INDIR.TAX&GOV.SER70	1.9	3.0	1.6	1.8	1.7	1.4	2.6	3.3
WAGES & SALARIES 71	45.4	97.2	101.5	64.7	59.3	64.3	264.3	106.8
NET-INC.UNICORP. 72	.0	.1	1.0	.0	.0	1.0	8.2	2.3
SURPLUS 73	30.8	48.7	4.5	39.7	21.5	10.4	28.1	24.6
SUB TOTAL(66-73) 74	78.1	167.9	108.8	107.5	128.4	77.3	303.4	140.0
TOTAL INPUTS 75	335.0	339.5	295.3	251.0	236.3	221.1	816.9	396.8

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	SAWMILLS 25	FURNITURE & FIXTURE IND. 26	OTHER WOOD IND. 27	PULP AND PAPER MILLS 28	OTHER PAPER IND. 29	PRINTING, PUBLISHING 30	IRON AND STEEL MILLS 31	SMETTING, REFINING 32
COMMODITY(ROWS)								
AGRICULTURAL PROD.1	.0	.0	.1	.2	.0	.0	.0	.0
FORESTRY PRODUCTS 2	257.8	.7	57.7	343.9	.0	.0	.2	.0
FISH AND FUR 3	.0	.0	.0	.0	.0	.0	.0	.0
METAL ORES & CONC.4	.0	.0	.0	.1	.0	.0	91.7	671.4
NON-METAL MINERALS5	.0	.0	.0	7.7	1.7	.0	4.6	3.1
COAL 6	.0	.4	.2	18.9	.3	.2	45.6	10.3
OIL AND NAT.GAS 7	.0	.0	.1	8.4	.1	.1	.5	1.1
MEAT PRODUCTS 8	.0	.0	.0	.0	.0	.0	.0	.0
DAIRY PRODUCTS 9	.0	.0	.0	.0	.2	.0	.0	.0
FRUIT & VEG.PROD.10	.0	.0	.0	.0	.0	.0	.0	.0
FEED,FLR.CEREALS 11	.0	.0	.0	.1	.0	.0	.0	.0
BAKERY PRODUCTS 12	.0	.0	.0	.0	.0	.0	.0	.0
SUGAR,CONFECT. 13	.0	.0	.0	.0	.0	.0	.0	.0
OTHER FOOD PROD. 14	.7	.0	.1	4.7	.0	.0	.9	.0
SOFT DRINKS 15	.0	.0	.0	.0	.0	.0	.0	.0
ALCOHOLIC BEV. 16	.0	.3	.0	.0	.0	.0	.0	.0
TOBACCO PRODUCTS 17	.0	.0	.0	.0	.0	.0	.0	.0
RUBBER PRODUCTS 18	.0	7.1	.0	.0	.3	.1	.0	.0
LEATHER PRODUCTS 19	.0	.6	.0	.0	.0	.0	.0	.0
SYNTHET.TEXTILES 20	.0	13.1	.5	.9	.5	2.6	.0	.0
COTTON,YARN,CLOTH21	.0	6.5	.2	.0	.8	1.1	.0	.2
KNITTED PRODUCTS 22	.0	.0	.0	.0	.0	.0	.0	.0
CLOTHING 23	.0	.0	.0	.0	.0	.0	.0	.0
OTHER TEXTILES 24	.0	14.5	.3	12.9	2.4	1.0	.0	.0
SAWMILL PROD. 25	48.9	18.8	63.3	41.3	2.6	.0	.1	.0



TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	SAWMILLS 25	FURNITURE & FIXTURE IND. 26	WOOD IND. 27	OTHER IND. 28	PAPER MILLS 29	PRINTING, PUBLISHING 30	IRON AND STEEL MILLS 31	SMELTING, REFINING 32
COMMODITY(ROWS)	25	26	27	28	29	30	31	32
FURNITURE, FIXTRS 26	.0	9.5	.0	.0	.0	.0	.0	.0
OTHER WOOD PROD. 27	.5	11.9	21.9	.9	.3	.1	1.6	.0
PULP AND PAPER 28	.0	2.5	.6	77.4	203.5	156.8	1.1	.0
OTHER PAPER PROD. 29	.2	4.7	1.6	6.1	30.2	4.4	.2	.8
PRINTED MATTER 30	.0	.1	.0	.0	6.1	65.8	.0	.0
STEEL MILL PROD. 31	.4	5.3	.3	.1	2.3	.0	42.7	19.9
SMELT. & REF. PROD. 32	.0	.6	.0	.4	.1	.0	50.8	306.2
OTH. PRIMARY METAL 33	.0	5.1	.2	.0	5.8	4.0	8.4	1.2
STRUCTURAL METAL 34	.4	.1	1.1	.0	.3	.0	.7	.0
METAL STAMPINGS 35	.0	1.6	3.4	.1	.6	.0	.1	.0
OTHER METAL PROD. 36	.1	21.7	3.5	13.3	.4	.1	2.8	.0
MACHINERY (NES) 37	.0	.1	.1	.9	.2	.5	7.0	2.5
AIRCRAFT & PARTS 38	.0	.0	.0	.0	.0	.0	.0	.0
MOTOR VEHICLES 39	.0	.0	.0	.0	.0	.0	.0	.0
VEHICLE PARTS 40	.0	.0	.0	.0	.0	.0	.0	.0
OTH. TRANSP. EQUIP 41	.0	.0	.0	.0	.0	.0	.0	.1
ELEC. APPLIANCES 42	.0	.0	.0	.0	.0	.0	.0	.0
ELEC. IND. EQUIP. 43	.0	.0	.0	.0	.0	.0	.0	.0
COM. EQUIP., WIRE 44	.0	.0	.0	.0	.0	.0	.0	.0
OTHER ELEC. PROD. 45	.0	1.8	.0	.0	.0	.0	.0	.0
CLAY, LIME, CEMENT 46	.0	.0	.0	2.2	3.0	.0	15.6	6.6
A.O. NON-METALLIC 47	.0	3.2	4.0	.6	.4	.0	.4	.0
PETR. PROD. 48	5.4	.7	3.9	17.3	7.9	2.0	10.5	6.4
PLASTIC, SYN. RESIN 49	.0	.0	7.2	1.3	8.9	.8	.0	.0
PAINT & VARNISH 50	.8	4.7	1.7	.2	.5	.2	.0	.0

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	SAWMILLS COMMODITY(ROWS)	25	FURNITURE & FIXTURE 26	WOOD IND. 27	PULP AND PAPER MILLS 28	OTHER PAPER IND. 29	PRINTING, PUBLISHING 30	IRON AND STEEL MILLS 31	SMELTING, REFINING 32
PHARM.SOAP,TOILET	51	.0	.0	.0	.1	.0	.0	.0	.0
OTHER CHEM PROD.	52	2.1	1.7	2.0	46.9	15.3	12.7	4.4	9.0
MISC. MFG. PROD.	53	.0	10.1	1.1	.2	10.4	1.4	.0	.0
CONSTRUCTION	54	4.0	1.0	1.8	6.9	2.3	2.5	3.8	10.5
TRADE, WH.&RETAIL	55	15.8	18.6	20.5	19.7	12.5	7.8	18.4	7.5
TRANSPORT,STORAGE	56	25.3	8.1	19.6	56.3	19.8	14.9	28.4	24.0
COMMUNICATIONS	57	1.8	2.1	2.4	3.1	4.9	18.1	2.1	1.5
UTILITIES	58	6.4	2.3	4.6	68.0	3.1	4.6	20.8	36.0
FIN.INSUR.RL.EST.	59	6.8	6.7	7.2	11.2	10.3	17.0	3.0	4.7
BUSINESS SERVICE	60	1.8	1.9	.9	5.6	1.8	2.9	1.7	6.2
ACCOM. MEALS	61	.0	.0	.0	.0	.0	.0	.0	.0
OTHER SERVICES	62	3.2	1.4	1.4	8.3	3.5	15.6	3.8	1.6
OFFICE SUPPLIES	63	.9	1.1	1.0	2.1	1.7	5.1	1.1	1.0
ADVTG. AND TRAVEL	64	2.2	8.9	5.3	9.6	12.3	32.8	3.8	3.7
OPERATING SUPPL.	65	29.8	7.1	13.6	70.5	15.2	20.9	56.4	10.6
NON-COMP.IMPORTS	66	.0	.0	.0	.0	.0	.0	.0	.0
BAL.OF PAYMNT ADJ	67	.0	.0	.0	.0	.0	.0	.0	.0
COMMODITY TAXES	68	.9	.4	.5	.7	.6	2.0	.5	.4
SUBSIDIES	69	.0	.0	.0	.0	.0	.0	-.3	.0
INDIR.TAX&GOV.SER	70	3.9	3.0	2.5	22.0	6.8	7.6	6.6	11.4
WAGES & SALARIES	71	179.0	121.3	123.0	371.2	134.4	358.1	204.5	170.7
NET-INC.UNICORP.	72	7.5	6.9	4.5	.0	.6	11.3	.0	.0
SURPLUS	73	40.0	28.3	29.1	385.2	45.7	99.5	142.6	84.3
SUB TOTAL(66-73)	74	231.3	159.8	159.6	779.3	188.1	478.5	353.9	266.8
TOTAL INPUTS	75	646.7	366.3	413.0	1647.5	581.0	874.8	787.0	1413.1

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	OTHER PRIMARY METAL IND. 33	STRUCTURAL, FABRIC.METAL STAMPING IND. 34	METAL STAMPING IND. 35	OTHER METAL WORKING IND. 36	MACHINERY (NES)MFG. 37	AIRCRAFT &PARTS MFG. 38	MOTOR VEHICLE MFG. 39	VEHICLE PARTS MFG. 40
COMMODITY(ROWS)								
AGRICULTURAL PROD.1	.0	.0	.0	.0	.0	.0	.0	.0
FORESTRY PRODUCTS 2	.0	.0	.0	.0	.0	.0	.0	.0
FISH AND FUR 3	.0	.0	.0	.0	.0	.0	.0	.0
METAL ORES & CONC.4	.3	.0	.0	.0	.0	.0	.0	.0
NON-METAL MINERALS5	.7	.0	.0	.6	2.2	.0	.0	.3
COAL 6	.5	.1	.2	.7	.8	.2	1.5	1.2
OIL AND NAT.GAS 7	.2	.0	.2	.4	.1	.0	.1	.1
MEAT PRODUCTS 8	.0	.0	.0	.0	.0	.0	.0	.0
DAIRY PRODUCTS 9	.0	.0	.0	.0	.0	.0	.0	.0
FRUIT & VEG.PROD.10	.0	.0	.0	.0	.0	.0	.0	.0
FEED,FLR.CEREALS 11	.0	.0	.0	.0	.0	.0	.0	.0
BAKERY PRODUCTS 12	.0	.0	.0	.0	.0	.0	.0	.0
SUGAR,CONFECT. 13	.0	.0	.0	.0	.0	.0	.0	.0
OTHER FOOD PROD. 14	.3	.1	.2	.2	.2	.0	.0	.0
SOFT DRINKS 15	.0	.0	.0	.0	.0	.0	.0	.0
ALCOHOLIC BEV. 16	.0	.0	.0	.0	.0	.0	.0	.0
TOBACCO PRODUCTS 17	.0	.0	.0	.0	.0	.0	.0	.0
RUBBER PRODUCTS 18	.7	.0	.1	1.1	5.4	3.3	36.0	2.1
LEATHER PRODUCTS 19	.0	.0	.0	.0	.0	.0	.1	.0
SYNTHET.TEXTILES 20	.0	.0	.0	.1	.0	.0	7.4	.1
COTTON,YARN,CLOTH21	.0	.0	.0	.1	.1	.0	1.7	.1
KNITTED PRODUCTS 22	.0	.0	.0	.0	.0	.0	.0	.0
CLOTHING 23	.0	.0	.0	.0	.0	.0	.0	.0
OTHER TEXTILES 24	.0	.0	.1	.6	.2	.4	16.6	.3
SAWMILL PROD. 25	.2	.1	.3	1.5	1.4	.0	.9	.1

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	OTHER PRIMARY METAL IND. 33	STRUCTURAL, FABRIC.METAL 34	METAL STAMPING IND. 35	OTHER METAL WORKING IND. 36	MACHINERY (NES) MFG. 37	AIRCRAFT & PARTS MFG. 38	MOTOR VEHICLE MFG. 39	VEHICLE PARTS MFG. 40
COMMODITY(ROWS)								
FURNITURE, FIXTURES 26	.4	.0	.3	.1	.0	.0	1.1	.0
OTHER WOOD PROD. 27	.9	.0	1.6	1.6	.6	.5	.4	.3
PULP AND PAPER 28	1.5	.2	.3	.9	.3	.1	.6	.4
OTHER PAPER PROD. 29	1.0	1.5	3.3	4.2	1.1	.2	1.0	2.3
PRINTED MATTER 30	.0	.0	.0	.0	1.5	.0	.0	.0
STEEL MILL PROD. 31	93.2	81.0	113.9	146.9	46.4	2.8	7.1	35.4
SMELT. & REF. PROD. 32	176.1	.3	3.3	22.4	3.1	1.9	.3	1.1
OTH. PRIMARY METAL 33	18.4	1.6	15.1	55.7	26.4	10.5	9.7	24.0
STRUCTURAL METAL 34	1.8	5.2	1.9	14.2	12.9	2.5	.9	.4
METAL STAMPINGS 35	.4	.9	28.7	7.4	8.3	3.5	5.2	5.4
OTHER METAL PROD. 36	4.8	8.2	14.9	91.4	63.0	15.4	23.9	22.4
MACHINERY (NES) 37	1.7	3.7	1.1	5.1	87.0	5.6	4.6	4.9
AIRCRAFT & PARTS 38	.0	.0	.0	.0	.0	74.7	.0	.0
MOTOR VEHICLES 39	.0	.0	.1	.3	.1	.0	2.2	.0
VEHICLE PARTS 40	.0	.0	.6	.6	2.7	1.7	406.8	60.7
OTH. TRANSP. EQUIP. 41	.0	.0	.0	.1	.0	.0	.0	.0
ELEC. APPLIANCES 42	.0	.1	1.0	2.0	2.6	.0	2.0	.0
ELEC. IND. EQUIP. 43	.0	.7	.1	3.5	17.5	.2	1.7	.3
COM. EQUIP. & WIRE 44	.0	.4	.2	.4	12.9	8.6	4.5	1.4
OTHER ELEC. PROD. 45	.0	.1	.0	.1	.1	.4	8.7	.7
CLAY, LIME, CEMENT 46	.4	.0	.0	.5	.2	.0	.0	1.0
A.O. NON-METALLIC 47	.2	.0	1.7	4.7	.7	1.0	17.9	.8
PETR. PROD. 48	2.4	.5	.9	2.8	1.7	1.7	1.1	1.0
PLASTIC, SYN. RESIN 49	.4	.0	2.2	1.3	.4	.7	.3	1.5
PAINT & VARNISH 50	.3	.5	4.4	1.9	1.8	.2	10.2	.2



TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	OTHER PRIMARY METAL IND. 33	STRUCTURAL, FABRIC.METAL 34	METAL STAMPING IND. 35	OTHER METAL WORKING IND. 36	MACHINERY (MFG.) 37	AIRCRAFT & PARTS MFG. 38	MOTOR VEHICLE MFG. 39	VEHICLE PARTS MFG. 40
PHARM.SOAP,TOILET51	.0	.0	.0	.1	.0	.0	.0	.0
OTHER CHEM PROD. 52	2.7	.4	2.5	3.4	2.0	.1	2.6	.4
MISC. MFG. PROD. 53	.3	.1	.8	2.6	1.4	8.5	5.7	2.0
CONSTRUCTION 54	4.8	.7	1.0	3.5	2.9	3.0	3.7	2.7
TRADE, WH.&RETAIL55	14.1	2.8	6.1	23.4	19.5	5.5	30.0	9.4
TRANSPORT,STORAGE56	17.8	2.2	8.1	15.3	12.5	5.3	26.1	7.3
COMMUNICATIONS 57	1.8	1.1	1.7	7.3	6.0	2.1	3.6	1.1
UTILITIES 58	7.6	1.1	2.8	8.4	4.5	1.9	2.9	3.4
FIN.INSUR.RL.EST.59	5.9	1.3	3.9	11.5	20.3	4.5	2.3	1.9
BUSINESS SERVICE 60	1.6	.5	.5	4.2	2.8	2.7	6.1	.4
ACCOM. MEALS 61	.0	.0	.0	.0	.0	.0	.0	.0
OTHER SERVICES 62	2.3	1.2	6.8	6.7	5.0	2.5	8.4	1.8
OFFICE SUPPLIES 63	.9	.7	1.2	3.6	2.9	1.6	2.4	.6
ADVTG. AND TRAVEL64	3.9	1.6	2.5	28.7	18.0	6.0	27.5	2.5
OPERATING SUPPL. 65	16.4	8.8	10.1	38.0	16.8	13.9	15.0	15.2
NON-COMP.IMPORTS 66	.0	.0	.0	.0	.0	.0	.0	.0
BAL.OF PAYMNT ADJ67	.0	.0	.0	.0	.0	.0	.0	.0
COMMODITY TAXES 68	.3	1.6	.4	1.1	.6	1.5	.4	.2
SUBSIDIES 69	.0	.0	.0	.0	.0	.0	.0	.0
INDIR.TAX&GOV.SER70	4.1	1.3	2.7	7.8	7.7	3.3	12.2	1.9
WAGES & SALARIES 71	110.7	74.4	104.9	304.2	252.6	152.0	163.0	108.7
NET-INC.UNICORP. 72	.8	-.0	1.4	5.9	.8	.0	.4	.3
SURPLUS 73	45.3	13.9	50.7	81.7	87.4	14.4	108.5	26.9
SUB TOTAL(66-73) 74	161.2	91.2	160.2	400.7	349.1	171.2	284.5	137.9
TOTAL INPUTS 75	548.3	218.7	404.9	930.7	765.4	364.8	995.0	355.2

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	OTHER TRANS- PORT EQUIP. 41	ELECTRICAL APPLIANCE IND. 42	ELEC.IND. EQUIP.-MFG. 43	COM. EQUIP. INCL. WIRE 44	OTHER ELEC. PROD. MFG. 45	CLAY,LIME CEMENT MFG. 46	NON-METAL PROD. (NES) 47	PETROL.COAL PROD. MFG. 48
AGRICULTURAL PROD.1	.0	.0	.0	.0	.0	.0	.0	.0
FORESTRY PRODUCTS 2	.0	.0	.0	.0	.0	.2	.1	.0
FISH AND FUR 3	.0	.0	.0	.0	.0	.0	.0	.0
METAL ORES & CONC.4	.0	.0	.0	.2	.0	1.5	5.1	.2
NON-METAL MINERALS5	.0	.2	.1	.1	.1	28.3	11.0	1.0
COAL 6	.3	.3	.4	.2	.1	7.7	.3	1.4
OIL AND NAT.GAS 7	.0	.1	.0	.1	.0	1.1	.3	722.9
MEAT PRODUCTS 8	.0	.0	.0	.0	.0	.0	.0	.0
DAIRY PRODUCTS 9	.0	.0	.0	.0	.0	.0	.0	.0
FRUIT & VEG.PROD.10	.0	.0	.0	.0	.0	.0	.0	.0
FEED,FLR.CEREALS 11	.0	.0	.0	.0	.0	.0	.0	.0
BAKERY PRODUCTS 12	.0	.0	.0	.0	.0	.0	.0	.0
SUGAR,CONFECT. 13	.0	.0	.0	.0	.0	.0	.0	.0
OTHER FOOD PROD. 14	.0	.0	.0	.0	.0	.4	.0	.5
SOFT DRINKS 15	.0	.0	.0	.0	.0	.0	.0	.0
ALCOHOLIC BEV. 16	.0	.0	.0	.0	.0	.0	.0	.0
TOBACCO PRODUCTS 17	.0	.0	.0	.0	.0	.0	.0	.0
RUBBER PRODUCTS 18	2.7	2.3	1.1	5.2	6.7	.3	.1	.0
LEATHER PRODUCTS 19	.1	.0	.0	.0	.0	.0	.0	.0
SYNTHET.TEXTILES 20	.0	.0	.0	.7	.0	.0	.1	.0
COTTON,YARN,CLOTH21	.1	.1	.3	1.0	.0	.3	2.0	.0
KNITTED PRODUCTS 22	.0	.0	.0	.0	.0	.0	.0	.0
CLOTHING 23	.0	.0	.0	.0	.0	.0	.0	.0
OTHER TEXTILES 24	.9	.1	.2	.8	.1	.1	.1	.0
SAWMILL PROD. 25	1.8	.1	.2	.2	.1	.1	.2	.1

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	OTHER TRANS- PORT EQUIP. 41	ELECTRICAL APPLIANCE IND. 42	ELEC.IND. EQUIP.MFG. 43	COM. EQUIP. INCL. WIRE 44	OTHER ELEC. PROD. MFG. 45	CLAY,LIME NON-METAL MIN		PETROL.COAL	
						CEMENT MFG. 46	PROD.(MINES) 47	PROD. MFG. 48	
FURNITURE, FIXTRS 26	.4	2.1	.8	.0	8.1	.0	.0	.0	
OTHER WOOD PROD. 27	.4	.5	.3	.5	.1	.2	.6	.1	
PULP AND PAPER 28	.3	.1	.8	1.9	.5	5.5	.8	.0	
OTHER PAPER PROD. 29	.1	4.8	.6	1.3	3.1	5.6	5.8	1.4	
PRINTED MATTER 30	.0	.0	.0	.0	.0	.1	.0	.0	
STEEL MILL PROD. 31	20.9	20.6	10.4	3.5	9.0	3.3	.1	.0	
SMELT. GREF. PROD. 32	3.1	1.0	2.9	11.4	5.7	1.8	1.5	2.2	
OTH. PRIMARY METAL 33	5.7	9.4	7.6	58.4	6.6	.4	.2	.0	
STRUCTURAL METAL 34	1.1	1.7	.0	.3	.3	.1	.1	.0	
METAL STAMPINGS 35	.3	8.5	8.7	5.4	1.1	.1	.4	8.6	
OTHER METAL PROD. 36	11.1	30.5	8.0	5.2	4.2	5.5	.9	.0	
MACHINERY (NES) 37	6.6	18.6	1.9	1.4	.3	.5	.3	1.2	
AIRCRAFT & PARTS 38	.0	.0	.0	.0	.0	.0	.0	.0	
MOTOR VEHICLES 39	.0	.1	.0	.0	.0	.0	.0	.0	
VEHICLE PARTS 40	1.0	.0	.5	.0	.0	.0	.0	.0	
OTH. TRANSP. EQUIP 41	20.7	.0	.0	.0	.0	.0	.0	.0	
ELEC. APPLIANCES 42	.2	14.4	5.4	.0	1.5	.0	.0	.0	
ELEC. IND. EQUIP. 43	.9	14.0	15.3	11.5	10.6	.9	.0	.0	
COM. EQUIP. WIRE 44	4.1	1.9	12.8	44.8	61.3	.0	.0	.0	
OTHER ELEC. PROD. 45	1.6	.5	1.0	1.7	10.5	.0	.4	.0	
CLAY, LIME, CEMENT 46	.2	.1	2.1	.3	.2	54.3	4.0	.0	
A.O. NON-METALLIC 47	2.0	.5	.6	3.4	4.1	2.0	20.6	.0	
PETR. PROD. 48	1.0	.6	.6	.7	.5	7.4	2.8	13.8	
PLASTIC, SYN. RESIN 49	.4	.3	.3	10.8	5.6	.1	2.0	.8	
PAINT & VARNISH 50	1.0	2.0	.6	1.4	1.2	.5	.3	.0	

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	OTHER TRANS- PORT EQUIP. 41	ELECTRICAL APPLIANCE IND. 42	ELEC.IND. EQUIP.MFG. 43	COM. EQUIP. INCL. WIRE 44	OTHER ELEC. PROD. MFG. 45	CLAY,LIME NON-METAL CEMENT MFG. 46	PROD.(NES) 47	PETROL.COAL PROD. MFG. 48
COMMODITY(ROWS)								
PHARM.SOAP,TOILET51	.0	.0	.0	.0	.0	.0	.0	.0
OTHER CHEM PROD. 52	.1	1.4	.6	2.0	2.6	4.9	7.5	42.2
MISC. MFG. PROD. 53	.6	4.3	.5	3.2	2.9	1.5	2.1	4.0
CONSTRUCTION 54	1.1	.7	.6	1.3	.6	2.9	1.3	26.1
TRADE, WH.&RETAIL55	6.6	7.8	4.2	7.7	5.9	10.7	4.2	5.9
TRANSPORT,STORAGE56	4.0	4.8	2.8	6.6	8.4	32.2	7.3	108.8
COMMUNICATIONS 57	.9	1.5	1.9	3.7	2.4	2.6	1.2	1.5
UTILITIES 58	2.6	2.3	1.5	2.6	1.6	12.1	10.1	10.2
FIN.INSUR.RL.EST.59	3.3	4.4	4.4	13.1	7.4	5.8	4.1	11.4
BUSINESS SERVICE 60	.4	1.6	1.7	1.3	1.4	2.1	.7	.9
ACCOM. MEALS 61	.0	.0	.0	.0	.0	.0	.0	.0
OTHER SERVICES 62	.9	1.7	1.0	2.5	1.6	7.8	1.2	2.2
OFFICE SUPPLIES 63	.7	.8	1.3	2.7	1.2	1.3	.5	1.3
ADVTG. AND TRAVEL64	2.0	10.9	4.6	6.5	14.0	8.2	4.0	2.0
OPERATING SUPPL. 65	3.9	5.1	7.7	12.8	6.6	40.1	14.8	16.5
NON-COMP.IMPORTS 66	.0	.1	.0	.0	.0	.0	.4	.0
BAL.OF PAYMNT ADJ67	.0	.0	.0	.0	.0	.0	.0	.0
COMMODITY TAXES 68	.5	.2	.2	.7	.2	2.3	.1	.5
SUBSIDIES 69	.0	.0	.0	.0	.0	.0	.0	.0
INDIR.TAX&GOV.SER70	2.1	2.7	2.8	2.7	1.8	6.7	2.6	6.4
WAGES & SALARIES 71	97.8	73.5	92.3	175.4	84.2	120.6	78.0	80.0
NET-INC.UNICORP. 72	.8	.0	.0	.0	.2	2.5	.2	3.0
SURPLUS 73	12.9	16.7	16.2	51.3	33.1	76.3	27.6	165.2
SUB TOTAL(66-73) 74	114.0	93.2	111.5	230.2	119.6	208.5	109.0	255.1
TOTAL INPUTS 75	230.2	275.9	227.8	468.4	317.9	468.9	227.9	1242.3



TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	PLASTIC AND SYN.RESIN 49	PAINT AND VARNISH MFG. 50	PHARM.SOAP TOILET MFG. 51	OTH.CHEMICAL INDUSTRIES 52	MISC.MFG. INDUSTRIES 53	CONSTRUCTION INDUSTRIES 54	WHOLESALE RETAIL TRADE 55		TRANSPORT & STORAGE 56
AGRICULTURAL PROD.1	.0	.0	.5	.1	.1	8.8	210.3	.6	
FORESTRY PRODUCTS 2	.0	.0	.0	.1	.0	17.2	3.1	.0	
FISH AND FUR 3	.0	.0	.0	.0	.0	.0	.0	.0	
METAL ORES & CONC.4	.0	.0	.0	.7	8.6	.0	.3	.0	
NON-METAL MINERALS5	.0	.9	.4	18.8	.3	66.3	.1	1.1	
COAL 6	.3	.1	.6	8.5	.6	.0	.3	3.6	
OIL AND NAT.GAS 7	.1	.0	.0	5.3	.1	.0	2.0	.8	
MEAT PRODUCTS 8	.0	.0	3.6	1.1	.1	.0	4.0	.0	
DAIRY PRODUCTS 9	.1	.2	.1	.2	.0	.0	4.4	.0	
FRUIT & VEG.PROD.10	.0	.0	.0	.0	.0	.0	.0	.0	
FEED,FLR.CEREALS 11	.0	.0	.0	.4	.0	.0	5.0	.7	
BAKERY PRODUCTS 12	.0	.0	.0	.0	.0	.0	.0	.0	
SUGAR,CONFECT. 13	.0	.0	.4	.1	.0	.0	.3	.0	
OTHER FOOD PROD. 14	1.5	5.0	20.7	5.8	.5	.0	.8	.0	
SOFT DRINKS 15	.0	.0	.0	.0	.0	.0	.0	.0	
ALCOHOLIC BEV. 16	.2	.2	1.1	.8	.0	.3	.0	.0	
TOBACCO PRODUCTS 17	.0	.0	.0	.0	.0	.0	.0	.0	
RUBBER PRODUCTS 18	.0	1.8	.0	.3	1.2	26.1	12.7	19.5	
LEATHER PRODUCTS 19	.0	.0	.0	.0	1.9	.3	.1	.2	
SYNTHET.TEXTILES 20	1.7	.0	.2	.1	2.5	4.9	13.9	.0	
COTTON,YARN,CLOTH21	.0	.0	2.3	.3	4.0	.3	7.9	1.9	
KNITTED PRODUCTS 22	.0	.0	.0	.0	.3	.0	.0	.0	
CLOTHING 23	.0	.0	.0	.0	.1	.0	17.5	.0	
OTHER TEXTILES 24	.1	.0	.1	.7	3.9	43.4	16.8	3.6	
SAWMILL PROD. 25	.0	.0	.0	.0	5.4	166.2	7.3	.0	

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY (COLUMNS) COMMODITY (ROWS)	PLASTIC AND SYN. RESIN 49	PAINT AND VARNISH 50	PHARM. SOAP TOILET MFG. 51	OTH. CHEMICAL INDUSTRIES 52	MISC. MFG. INDUSTRIES 53	CONSTRUCTION INDUSTRIES 54	WHOLESALE RETAIL TRADE 55	TRANSPORT & STORAGE 56
FURNITURE, FIXTURES 26	.0	.0	.0	.0	.0	12.1	.0	.4
OTHER WOOD PROD. 27	.2	.0	.1	1.0	6.5	244.7	2.4	.0
PULP AND PAPER 28	4.6	.2	1.2	2.0	9.1	23.9	19.9	.6
OTHER PAPER PROD. 29	1.0	1.8	20.3	13.6	7.2	51.6	70.3	1.4
PRINTED MATTER 30	.0	.0	.1	.1	.3	.0	9.3	2.5
STEEL MILL PROD. 31	.0	.1	.0	5.1	8.4	124.7	1.7	4.4
SMELT. & REF. PROD. 32	.1	.7	.2	6.6	11.8	.0	.4	.1
OTH. PRIMARY METAL 33	.0	.0	.0	1.1	18.7	263.2	.4	2.0
STRUCTURAL METAL 34	.0	.0	.0	.0	1.4	192.0	.0	.3
METAL STAMPINGS 35	.5	7.3	4.9	8.9	14.4	83.4	8.8	.0
OTHER METAL PROD. 36	.3	.4	3.0	.3	5.5	498.2	15.8	3.2
MACHINERY (NES) 37	.1	.2	1.7	.7	1.0	126.9	5.7	6.9
AIRCRAFT & PARTS 38	.0	.0	.0	.0	.0	.0	.0	11.8
MOTOR VEHICLES 39	.0	.0	.0	.0	.0	.0	.0	.0
VEHICLE PARTS 40	.0	.0	.0	.0	.1	8.8	.0	28.5
OTH. TRANSP. EQUIP 41	.0	.0	.0	.0	.0	.0	.0	29.1
ELEC. APPLIANCES 42	.0	.0	.1	.0	.4	10.5	.0	.0
ELEC. IND. EQUIP. 43	.0	.0	.0	.0	2.1	46.3	.0	.1
COM. EQUIP., WIRE 44	.0	.0	.0	.0	1.3	122.7	.5	.4
OTHER ELEC. PROD. 45	.0	.0	.0	.0	1.1	99.2	.0	3.6
CLAY, LIME, CEMENT 46	.0	.0	.0	1.0	.4	382.0	.5	.1
A.O. NON-METALLIC 47	.0	.2	12.7	1.5	7.9	88.2	1.3	1.5
PETR. PROD. 48	3.5	4.2	1.2	40.2	1.7	104.0	138.2	139.8
PLASTIC, SYN. RESIN 49	6.3	11.9	.7	8.4	51.9	1.0	3.8	.0
PAINT & VARNISH 50	.0	2.3	.0	1.0	2.0	42.6	.0	.2

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY (COLUMNS)	PLASTIC AND SYN. RESIN IND.	PAINT AND VARNISH MFG.	PHARM. SOAP TOILET MFG.	OTH. CHEMICAL INDUSTRIES	MISC. MFG. INDUSTRIES	CONSTRUCTION INDUSTRIES	WHOLESALE RETAIL TRADE	TRANSPORT & STORAGE
	49	50	51	52	53	54	55	56
COMMODITY (ROWS)								
PHARM. SOAP, TOILET	1.2	1.9	13.4	2.7	.2	.3	.0	.0
OTHER CHEM PROD.	27.7	30.3	34.4	141.5	10.2	25.3	1.4	3.5
MISC. MFG. PROD.	.6	.2	12.5	2.1	30.4	58.3	11.4	4.3
CONSTRUCTION	1.4	.4	1.3	7.3	2.1	4.0	38.8	167.0
TRADE, WH. & RETAIL	2.5	3.6	9.8	15.8	14.0	471.5	99.0	94.3
TRANSPORT, STORAGE	3.6	4.3	9.3	28.3	9.8	252.4	212.4	255.1
COMMUNICATIONS	.9	1.2	3.5	3.7	5.2	7.7	185.9	41.3
UTILITIES	2.4	.6	1.7	32.5	3.8	6.7	94.6	16.0
FIN. INSUR. RL. EST.	1.5	3.0	6.5	10.8	16.6	61.7	421.9	79.7
BUSINESS SERVICE	.4	1.2	6.4	2.1	2.1	117.4	59.5	11.9
ACCOM. MEALS	.0	.0	.0	.0	.0	.0	.0	8.0
OTHER SERVICES	.6	1.8	7.0	8.2	3.7	141.4	57.1	37.1
OFFICE SUPPLIES	.3	.7	1.6	2.3	9.4	4.7	104.2	24.0
ADVTG. AND TRAVEL	3.3	12.4	79.8	10.4	31.1	29.8	352.1	42.4
OPERATING SUPPL.	5.2	2.4	7.2	26.7	26.3	18.2	201.9	123.7
NON-COMP. IMPORTS	.0	.0	.0	.7	1.0	.0	4.8	.0
BAL. OF PAYMNT ADJ	.0	.0	.0	.0	.0	.0	.0	.0
COMMODITY TAXES	.0	.0	.8	.4	1.0	206.1	80.1	79.4
SUBSIDIES	.0	.0	.0	-.1	.0	.0	-76.4	-96.0
INDIR. TAX & GOV. SERV	1.1	1.3	3.5	9.7	4.6	63.8	145.3	94.9
WAGES & SALARIES	23.9	38.7	94.7	173.2	211.0	2177.2	2826.9	1410.7
NET-INC. UNICORP.	.0	.1	.4	.3	8.1	237.4	654.0	89.8
SURPLUS	21.3	13.8	54.7	185.3	75.4	273.7	1037.3	773.4
SUB TOTAL (66-73)	46.4	53.9	154.0	369.5	301.0	2958.1	4672.0	2352.4
TOTAL INPUTS	118.4	155.3	424.9	799.0	648.6	7017.1	7098.2	3529.6

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	COMMUNI- CATIONS 57	UTILITIES 58	FINANCE,INS. REAL ESTATE 59	BUSINESS SERVICES 60	HOTEL AND RESTAURANT 61	OTHER SERVICES 62	OFFICE SUPPLIES(D) 63	ADVTG. AND TRAVEL(D) 64
AGRICULTURAL PROD.1	.0	.0	.0	.0	52.4	1.1	.0	.0
FORESTRY PRODUCTS 2	.0	.0	.0	.0	.0	.0	.0	.0
FISH AND FUR 3	.0	.0	.0	.0	1.5	.0	.0	.0
METAL ORES & CONC.4	.0	.0	.0	.0	.0	.4	.0	.0
NON-METAL MINERALS5	.0	.0	.0	.0	.6	.0	.0	.0
COAL 6	.0	6.9	.0	.0	.0	.2	.0	.0
OIL AND NAT.GAS 7	.0	.8	1.1	.0	.1	.1	.0	.0
MEAT PRODUCTS 8	.0	.0	.0	.0	121.6	.0	.0	.0
DAIRY PRODUCTS 9	.0	.0	.0	.0	87.2	.0	.0	.0
FRUIT & VEG.PROD.10	.0	.0	.0	.0	39.3	.0	.0	.0
FEED,FLR.CEREALS 11	.0	.0	.0	.0	8.9	.1	.0	.0
BAKERY PRODUCTS 12	.0	.0	.0	.0	53.1	.0	.0	.0
SUGAR,CONFECT. 13	.0	.0	.0	.0	10.2	.0	.0	.0
OTHER FOOD PROD. 14	.0	.0	.0	.0	31.2	1.5	.0	.0
SOFT DRINKS 15	.0	.0	.0	.0	19.2	.0	.0	3.3
ALCOHOLIC BEV. 16	.0	.0	.0	.0	.0	.0	.0	34.5
TOBACCO PRODUCTS 17	.0	.0	.0	.0	.0	.0	.0	.0
RUBBER PRODUCTS 18	.0	.0	.0	.0	.0	1.7	10.3	.0
LEATHER PRODUCTS 19	.0	.0	.0	.0	.0	1.6	.8	2.7
SYNTHET.TEXTILES 20	.0	.0	.0	.0	.0	1.2	.0	.0
COTTON,YARN,CLOTH21	.0	.0	.0	.0	11.8	7.2	.0	.0
KNITTED PRODUCTS 22	.0	.0	.0	.0	.0	.0	.0	.0
CLOTHING 23	.2	.0	.0	.0	.9	.0	.0	.0
OTHER TEXTILES 24	1.1	.0	.0	.1	4.7	8.9	.0	.0
SAWMILL PROD. 25	.0	2.0	.5	.0	.0	.1	.0	.0



TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	COMMUNI- CATIONS 57	UTILITIES 58	FINANCE,INS. REAL ESTATE 59	BUSINESS SERVICES 60	HOTEL AND RESTAURANT 61	OTHER SERVICES 62	OFFICE SUPPLIES(D) 63	ADVTG. AND TRAVEL(D) 64
FURNITURE, FIXTRS 26	.0	.0	.0	.0	.6	.0	.0	.0
OTHER WOOD PROD. 27	.0	.0	.0	.0	.0	11.6	.1	.0
PULP AND PAPER 28	.0	.0	.0	.5	7.8	1.1	.7	.0
OTHER PAPER PROD. 29	.2	.0	.3	.2	7.9	1.9	39.0	.0
PRINTED MATTER 30	9.1	.4	8.0	.7	.0	2.1	193.9	368.8
STEEL MILL PROD. 31	.0	.0	.0	.0	.0	.1	.0	.0
SMELT. & REF. PROD. 32	.0	.0	.0	.0	.0	1.3	.0	.0
OTH. PRIMARY METAL 33	.0	.0	.0	.0	.0	.5	.0	.0
STRUCTURAL METAL 34	.0	.0	.0	.0	.0	.0	.0	.0
METAL STAMPINGS 35	.0	.0	.0	.0	.0	.0	.0	.0
OTHER METAL PROD. 36	.1	.0	.0	.0	.2	3.1	2.9	.0
MACHINERY (NES) 37	1.2	2.0	9.1	.5	.1	.3	.0	.0
AIRCRAFT & PARTS 38	.0	.0	.0	.0	.0	.0	.0	.0
MOTOR VEHICLES 39	.0	.0	.0	.0	.0	.0	.0	.0
VEHICLE PARTS 40	.0	.0	.0	.0	.0	.0	.0	.0
OTH. TRANSP. EQUIP 41	.0	.0	.0	.0	.0	.0	.0	.0
ELEC. APPLIANCES 42	.0	.0	.0	.0	.0	.0	.0	.0
ELEC. IND. EQUIP. 43	.0	.0	.0	.0	.0	.0	.0	.0
COM. EQUIP., WIRE 44	9.5	.0	.0	.0	.0	.0	.0	.0
OTHER ELEC. PROD. 45	.9	.0	.0	.0	.0	.0	.0	.0
CLAY, LIME, CEMENT 46	.0	.0	.0	.0	1.7	.0	.0	.0
A.O. NON-METALLIC 47	.0	.0	.0	.0	2.0	.2	.0	.9
PETR. PROD. 48	2.1	6.9	9.1	1.0	9.2	16.8	.0	.0
PLASTIC, SYN. RESIN 49	.0	.0	.0	.0	.0	.5	.0	.0
PAINT & VARNISH 50	.0	.0	12.1	.0	.0	.0	.0	.0

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY (COLUMNS) COMMODITY (ROWS)	COMMUNI- CATIONS 57	UTILITIES 58	FINANCE, INS. REAL ESTATE 59	BUSINESS SERVICES 60	HOTEL AND RESTAURANT 61	OTHER SERVICES 62	OFFICE SUPPLIES (D) 63	ADVTG. AND TRAVEL (D) 64
PHARM. SOAP, TOILET 51	.0	.1	.0	.0	.9	41.1	.0	.0
OTHER CHEM PROD. 52	.1	.3	.0	.1	.1	12.2	2.9	.7
MISC. MFG. PROD. 53	.6	.0	.0	.8	2.4	22.7	25.0	21.9
CONSTRUCTION 54	35.7	56.5	502.0	.0	10.5	4.9	.0	.0
TRADE, WH. & RETAIL 55	5.3	6.0	12.1	1.8	47.1	28.3	32.1	34.8
TRANSPORT, STORAGE 56	65.3	4.7	3.6	.9	22.3	12.2	9.7	113.9
COMMUNICATIONS 57	24.4	4.7	58.3	9.4	8.9	33.9	.0	92.9
UTILITIES 58	2.9	244.3	20.3	1.2	8.4	13.0	.0	.0
FIN. INSUR. RL. EST. 59	15.5	32.1	373.4	19.0	56.7	125.1	.0	.0
BUSINESS SERVICE 60	5.9	6.3	50.2	23.5	4.2	15.1	.0	106.1
ACCOM. MEALS 61	.0	.0	.0	.0	1.3	.0	.0	428.0
OTHER SERVICES 62	39.7	3.0	60.0	27.6	35.8	88.9	.0	32.8
OFFICE SUPPLIES 63	7.1	1.2	78.9	8.8	3.2	21.5	.0	.0
ADVTG. AND TRAVEL 64	8.8	6.7	102.5	26.7	17.7	41.0	.0	.0
OPERATING SUPPL. 65	9.5	19.7	142.4	9.3	36.6	79.1	.0	.0
NON-COMP. IMPORTS 66	.0	.0	.0	.0	10.3	.0	.0	.0
BAL. OF PAYMNT ADJ 67	.0	.0	.0	.0	.0	.0	.0	.0
COMMODITY TAXES 68	3.1	1.8	2.0	1.0	6.0	14.1	18.3	35.9
SUBSIDIES 69	-66.4	-1.6	-13.8	.0	-2	.0	.0	.0
INDIR. TAX & GOV. SERV 70	27.6	23.5	1120.8	5.4	36.5	27.5	.0	.0
WAGES & SALARIES 71	490.9	225.1	1013.0	249.0	492.3	548.0	.0	.0
NET-INC. UNICORP. 72	2.1	.7	705.0	202.5	179.3	509.1	.0	.0
SURPLUS 73	420.9	608.4	2281.7	26.7	117.6	177.8	.0	.0
SUB TOTAL (66-73) 74	878.2	857.8	5108.7	484.6	841.8	1276.6	18.3	35.9
TOTAL INPUTS 75	1123.6	1262.4	6552.7	616.6	1570.2	1879.1	335.7	1277.1

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

IND.65 & FINAL DEMAND COMMODITY(ROWS)	OPERATING SUPPLIES(D) 65	INTERMEDIATE INPUTS(1-65) 66	NET EXPORTS 67	RE-EXPORTS 68	IMPORTS 69	INVENTORY CHANGE 70	OTHER FINAL DEMAND 71	TOTAL OUTPUT 72
AGRICULTURAL PROD.1	10.7	2175.6	803.1	1.0	-252.0	-400.6	486.2	2813.3
FORESTRY PRODUCTS 2	.0	782.6	42.9	1.0	-14.7	-12.0	38.3	838.1
FISH AND FUR 3	.4	110.0	23.9	.9	-18.0	.5	5.8	123.1
METAL ORES & CONC.4	.0	780.6	519.0	.0	-126.5	19.4	.0	1192.6
NON-METAL MINERALSS	.1	161.5	153.0	4.3	-56.4	1.3	12.1	275.7
COAL 6	.0	130.3	8.1	.0	-119.4	2.4	47.0	68.5
OIL AND NAT.GAS 7	.0	801.2	208.5	.0	-368.4	5.5	154.7	801.5
MEAT PRODUCTS 8	21.4	453.2	69.7	1.9	-76.1	19.2	1138.1	1606.0
DAIRY PRODUCTS 9	12.7	187.0	24.2	.0	-12.1	9.0	706.1	914.1
FRUIT & VEG.PROD.10	6.4	85.4	8.8	.6	-110.8	16.7	335.9	336.6
FEED,FLR.CEREALS 11	1.3	393.0	68.9	.0	-7.7	2.6	90.2	547.0
BAKERY PRODUCTS 12	7.4	61.5	3.6	.0	-11.8	5.7	396.9	455.8
SUGAR,CONFECT. 13	1.7	101.9	1.8	.2	-33.8	3.2	198.0	271.3
OTHER FOOD PROD. 14	6.1	283.8	164.0	2.0	-139.6	9.2	313.5	632.8
SOFT DRINKS 15	3.2	44.7	.1	.0	-4.7	1.4	133.8	175.3
ALCOHOLIC BEV. 16	.0	58.2	88.6	.2	-61.0	21.6	322.5	430.2
TOBACCO PRODUCTS 17	.0	75.8	28.1	.0	-9.2	4.7	231.8	331.3
RUBBER PRODUCTS 18	70.9	250.1	7.2	.6	-59.8	1.4	107.5	307.0
LEATHER PRODUCTS 19	.6	74.4	15.3	.5	-44.6	2.6	243.4	291.7
SYNTHET.TEXTILES 20	.3	271.3	20.1	.7	-66.8	1.6	14.4	241.3
COTTON,YARN,CLOTH21	.8	316.9	10.9	.8	-144.0	3.3	42.3	230.2
KNITTED PRODUCTS 22	.0	49.9	1.7	.4	-39.7	3.6	202.3	218.2
CLOTHING 23	3.6	74.0	8.0	.6	-61.7	14.8	816.4	852.0
OTHER TEXTILES 24	12.0	396.3	11.8	2.0	-196.4	10.3	196.0	420.0
SAWMILL PROD. 25	.7	367.5	354.9	.1	-39.2	13.7	6.7	703.7

TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

IND.65 & FINAL DEMAND COMMODITY(ROWS)	OPERATING SUPPLIES(0) 65	INTERMEDIATE INPUTS(1-65) 66	NET EXPORTS 67	RE-EXPORTS 68	IMPORTS 69	INVENTORY CHANGE 70	OTHER FINAL DEMAND 71	TOTAL OUTPUT 72
FURNITURE, FIXTURES 26	.0	35.9	2.3	.2	-35.2	7.0	358.3	368.5
OTHER WOOD PROD. 27	.0	329.3	39.7	.6	-32.5	9.7	11.3	358.1
PULP AND PAPER 28	8.5	562.5	1113.9	.3	-65.0	2.4	31.5	1645.7
OTHER PAPER PROD. 29	1.7	522.7	4.3	.5	-43.2	6.8	71.5	562.5
PRINTED MATTER 30	.0	676.3	16.1	2.4	-144.7	6.4	298.7	855.1
STEEL MILL PROD. 31	2.0	815.7	112.9	1.0	-122.2	4.3	.0	811.6
SMELT. & REF. PROD. 32	.0	619.6	823.1	11.0	-77.4	-1.5	-68.7	1306.1
OTH. PRIMARY METAL 33	5.1	577.0	60.2	.6	-101.0	1.7	1.8	540.2
STRUCTURAL METAL 34	.0	240.4	4.4	.3	-23.9	.8	1.4	223.5
METAL STAMPINGS 35	.0	330.9	3.3	1.0	-61.9	3.7	39.1	316.1
OTHER METAL PROD. 36	129.5	1032.1	29.9	4.9	-255.8	1.6	126.9	939.6
MACHINERY (NES) 37	246.6	641.2	154.0	31.4	-947.7	9.0	975.5	863.5
AIRCRAFT & PARTS 38	.0	87.7	99.2	33.0	-211.9	10.6	329.1	347.5
MOTOR VEHICLES 39	1.0	3.7	27.0	2.1	-230.9	18.5	1091.4	911.8
VEHICLE PARTS 40	91.1	603.1	15.6	4.5	-367.8	2.1	81.6	339.0
OTH. TRANSP. EQUIP. 41	.4	53.3	17.8	.7	-41.9	-1.2	178.2	206.9
ELEC. APPLIANCES 42	2.2	42.7	6.4	.5	-105.0	4.2	293.4	242.1
ELEC. IND. EQUIP. 43	16.9	142.4	15.0	2.6	-89.3	.8	154.2	225.8
COM. EQUIP., WIRE 44	11.2	300.0	40.9	3.0	-124.6	15.2	170.9	405.4
OTHER ELEC. PROD. 45	47.4	180.1	5.8	1.2	-91.7	2.4	178.8	276.5
CLAY, LIME, CEMENT 46	.4	479.7	10.8	.3	-69.8	7.2	28.0	456.2
A.O. NON-METALLIC 47	12.5	234.4	29.5	.6	-84.5	5.1	34.6	219.7
PETR. PROD. 48	3.9	814.2	10.2	.3	-137.8	9.7	539.9	1236.5
PLASTIC, SYN. RESIN 49	.8	160.6	30.7	.2	-65.5	2.1	1.0	129.1
PAINT & VARNISH 50	49.7	147.1	1.3	.1	-7.5	1.2	15.1	157.2



TABLE 8 VALUES OF INDUSTRY INPUTS AND FINAL EXPENDITURES, 1961 - AGGREGATION M (SEE CHAPTER 4)

IND.65 & FINAL DEMAND COMMODITY(ROWS)	OPERATING SUPPLIES(0) 65	INTERMEDIATE INPUTS(1-65) 66	NET EXPORTS 67	RE-EXPORTS 68	IMPORTS 69	INVENTORY CHANGE 70	OTHER FINAL DEMAND 71	TOTAL OUTPUT 72
PHARM.SOAP,TOILET51	44.2	135.9	12.1	.6	-58.1	7.9	319.1	417.5
OTHER CHEM PROD. 52	49.3	757.7	171.1	2.7	-264.3	6.1	79.1	752.3
MISC. MFG. PROD. 53	56.2	361.7	40.4	10.5	-361.0	13.3	533.0	597.9
CONSTRUCTION 54	.0	1052.4	.0	.0	.0	.0	5911.9	6964.3
TRADE, WH.&RETAIL55	549.5	2039.2	111.8	.0	.0	24.8	4857.1	7032.9
TRANSPORT,STORAGE56	34.1	1862.3	558.2	.0	-80.9	-4.7	1159.2	3494.0
COMMUNICATIONS 57	.0	604.9	24.9	.0	-17.6	.0	443.2	1055.4
UTILITIES 58	.0	794.1	18.1	.0	-15.9	-2.3	476.4	1272.4
FIN.INSUR.RL-EST.59	.0	1822.8	19.7	.0	-83.4	.0	5097.2	6856.3
BUSINESS SERVICE 60	.0	546.5	8.0	.0	-72.1	.0	197.2	679.6
ACCOM. MEALS 61	.0	437.3	.0	.0	.0	.0	1242.2	1679.5
OTHER SERVICES 62	106.1	836.2	6.5	.0	-120.3	.0	1378.4	2100.8
OFFICE SUPPLIES 63	.0	335.7	.0	.0	.0	.0	.0	335.7
ADVTG. AND TRAVEL64	.0	1277.1	.0	.0	.0	.0	.0	1277.1
OPERATING SUPPL. 65	.0	1679.6	.0	.0	.0	.0	.0	1679.6
NON-COMP.IMPORTS 66	.8	209.0	-0.0	.6	-301.5	2.9	89.0	.0
BAL.OF PAYMNT ADJ67	.0	.0	798.9	.0	-934.4	.0	135.5	.0
COMMODITY TAXES 68	48.5	562.3	1.0	.0	515.0	14.9	1951.1	3044.3
SUBSIDIES 69	.0	-311.4	.0	.0	.0	.0	.0	-311.4
INDIR.TAX&GOV.SER70	.0	1928.1	.0	.0	.0	.0	-77.9	1850.2
WAGES & SALARIES 71	.0	16432.1	.0	.0	.0	.0	4293.1	20725.2
NET-INC.UNICORP. 72	.0	3683.1	.0	.0	.0	.0	.0	3683.1
SURPLUS 73	.0	10051.3	.0	.0	.0	.0	566.0	10617.2
SUB TOTAL(66-73) 74	49.3	32554.5	799.9	.6	-720.9	17.9	6956.8	39608.7
TOTAL INPUTS 75	1679.6	65217.0	7091.2	135.4	-7408.0	-44.3	39834.5	104825.7

TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	AGRICULTURE	FORESTRY	FISHING & HUNTING	METAL MINES	NON-METAL MINES	COAL MINES	PETROLEUM & NATURAL GAS	MEAT,POULTRY PROCESSORS
COMMODITY(ROWS)	1	2	3	4	5	6	7	8
AGRICULTURAL PROD.1	.048740	.001673	.000000	.000000	.000000	.000000	.000000	.543172
FORESTRY PRODUCTS 2	.003557	.109797	.000000	.000000	.000000	.000000	.000000	.000016
FISH AND FUR 3	.000000	.000000	.014619	.000000	.000000	.000000	.000000	.000000
METAL ORES & CONC.4	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
NON-METAL MINERALS5	.000074	.000000	.001692	.002999	.005334	.000097	.001344	.000676
COAL 6	.001181	.000139	.000000	.001489	.004050	.004011	.000000	.000620
OIL AND NAT.GAS 7	.000067	.000001	.000101	.021492	.011432	.000000	.032345	.000160
MEAT PRODUCTS 8	.000772	.000000	.000000	.000000	.000000	.000000	.000000	.165428
DAIRY PRODUCTS 9	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.001035
FRUIT & VEG.PROD.10	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000098
FEED,FLR.CEREALS 11	.082199	.007422	.000000	.000000	.000000	.000000	.000283	.000725
BAKERY PRODUCTS 12	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000005
SUGAR,CONFECT. 13	.000214	.000000	.000000	.000000	.000000	.000000	.000000	.000418
OTHER FOOD PROD. 14	.002491	.000000	.000000	.000000	.000000	.000000	.000000	.019410
SOFT DRINKS 15	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ALCOHOLIC BEV. 16	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
TOBACCO PRODUCTS 17	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
RUBBER PRODUCTS 18	.002146	.000000	.000000	.000000	.000000	.000000	.000000	.000000
LEATHER PRODUCTS 19	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
SYNTHET.TEXTILES 20	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000102
COTTON,YARN,CLOTH21	.000000	.000317	.014744	.000000	.000000	.000000	.000000	.000072
KNITTED PRODUCTS 22	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000089
CLOTHING 23	.000128	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTHER TEXTILES 24	.004518	.001943	.018724	.000412	.006157	.000014	.000000	.000777
SAWMILL PROD. 25	.000076	.000335	.010840	.000000	.000000	.007924	.000000	.000039









TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	DAIRY FACTORIES 9	FRUIT&VEG. CANNERS 10	FEED,FLOUR CEREAL MFG 11	BISCUITE BAKERIES IND. 12	SUGAR AND CONECTIONERY 13	OTHER FOOD IND. 14	SOFT DRINK MFG. 15	ALCOHOLIC BEVERAGE MFG 16
1 AGRICULTURAL PROD.	.542990	.165578	.417487	.005113	.066499	.138262	.000000	.040928
2 FORESTRY PRODUCTS	.000101	.000003	.000005	.000024	.000000	.000056	.000000	.000000
3 FISH AND FUR	.000000	.000000	.000980	.000000	.000000	.133161	.000000	.000000
4 METAL ORES & CONC.	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
5 NON-METAL MINERALS	.000184	.000865	.001931	.000767	.001249	.000844	.000000	.000053
6 COAL	.001285	.003312	.000493	.000338	.002371	.001047	.000621	.002123
7 OIL AND NAT.GAS	.000170	.000125	.000140	.000607	.000532	.000292	.000097	.000168
8 MEAT PRODUCTS	.000860	.039864	.027319	.040693	.000688	.016826	.001192	.001671
9 DAIRY PRODUCTS	.070642	.004809	.002458	.012199	.013536	.004972	.000000	.000000
10 FRUIT & VEG.PROD.	.002799	.060879	.000762	.024641	.003015	.005012	.000148	.001049
11 FEED,FLR.CEREALS	.000120	.000891	.067590	.130579	.002862	.014512	.000000	.006239
12 BAKERY PRODUCTS	.000322	.000051	.000009	.000633	.000594	.000274	.000000	.000000
13 SUGAR,CONFECT.	.005228	.033051	.008967	.040883	.084034	.013678	.080280	.002304
14 OTHER FOOD PROD.	.005965	.012191	.073809	.046969	.018442	.084384	.005348	.057300
15 SOFT DRINKS	.000238	.000194	.000000	.000000	.000000	.000000	.106473	.000092
16 ALCOHOLIC BEV.	.000000	.000104	.003740	.000000	.000000	.000883	.000793	.041469
17 TOBACCO PRODUCTS	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
18 RUBBER PRODUCTS	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
19 LEATHER PRODUCTS	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
20 SYNTHET.TEXTILES	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
21 COTTON,YARN,CLOTH	.000125	.000000	.000322	.000000	.000000	.000241	.000000	.000000
22 KNITTED PRODUCTS	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
23 CLOTHING	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
24 OTHER TEXTILES	.000099	.000086	.018476	.000095	.003704	.001965	.000000	.000000
25 SAWMILL PROD.	.000037	.000107	.000099	.000043	.000000	.000027	.000023	.000083

TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	DAIRY FACTORIES 9	FRUIT&VEG. CANNERS 10	FEED, FLOUR CEREAL MFG 11	BISCUITS & BAKERIES IND. 12	SUGAR AND CONFECTIONERY 13	OTHER FOOD IND. 14	SOFT DRINK MFG. 15	ALCOHOLIC BEVERAGE MFG 16
FURNITURE, FIXTRS 26	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTHER WOOD PROD. 27	.001379	.000024	.000012	.000009	.000040	.002112	.000000	.006081
PULP AND PAPER 28	.001130	.000546	.001998	.003588	.006646	.005779	.000000	.000934
OTHER PAPER PROD. 29	.025204	.046819	.023238	.067459	.055340	.035920	.008587	.040152
PRINTED MATTER 30	.000000	.000000	.000000	.000106	.000299	.000000	.005394	.011939
STEEL MILL PROD. 31	.000000	.000000	.001149	.000000	.000000	.001856	.000000	.000000
SMELT. & REF. PROD. 32	.000000	.000000	.000011	.000000	.000033	.000004	.000006	.000000
OTH. PRIMARY METAL 33	.000007	.000000	.000000	.000000	.000000	.000141	.000000	.000000
STRUCTURAL METAL 34	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
METAL STAMPINGS 35	.011931	.142315	.006769	.000509	.003736	.018652	.036582	.025007
OTHER METAL PROD. 36	.000000	.000000	.000000	.000000	.000000	.000038	.000000	.000000
MACHINERY (NES) 37	.000171	.000620	.000357	.000310	.000663	.000310	.000086	.000404
AIRCRAFT & PARTS 38	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
MOTOR VEHICLES 39	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
VEHICLE PARTS 40	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTH. TRANSP. EQUIP 41	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ELEC. APPLIANCES 42	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ELEC. IND. EQUIP. 43	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COM. EQUIP., WIRE 44	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTHER ELEC. PROD. 45	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
CLAY, LIME, CEMENT 46	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
A.O. NON-METALLIC 47	.003886	.027518	.000002	.000013	.000357	.006740	.002309	.039032
PETR. PROD. 48	.008191	.003414	.002348	.012540	.003962	.004041	.009984	.005046
PLASTIC, SYN. RESIN 49	.001219	.000474	.000000	.021108	.004494	.001579	.000000	.000897
PAINT & VARNISH 50	.000000	.000000	.000000	.000000	.000000	.000077	.000000	.000000





TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY (COLUMNS) COMMODITY (ROWS)	TOBACCO PROD. IND. 17	RUBBER PROD. MFG 18	LEATHER PROD. MFG. 19	SYNTHETIC TEXTILE MILLS 20	COTTON YARN, CLOTH MILLS 21	KNITTING MILLS 22	CLOTHING INDUSTRIES 23	OTHER TEXTILE IND. 24
AGRICULTURAL PROD. 1	.308834	.000000	.000000	.000000	.000000	.000000	.012333	.010021
FORESTRY PRODUCTS 2	.000000	.000003	.000007	.000000	.000000	.000000	.000001	.000083
FISH AND FUR 3	.000000	.000000	.000000	.000000	.000000	.000000	.016146	.000527
METAL ORES & CONC. 4	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
NON-METAL MINERALS 5	.000000	.001602	.000379	.000000	.000000	.000000	.000000	.000716
COAL 6	.000254	.003708	.001822	.000817	.004383	.001777	.000163	.002530
OIL AND NAT. GAS 7	.000012	.001010	.000051	.000139	.000000	.000036	.000017	.000091
MEAT PRODUCTS 8	.004866	.000000	.081425	.000000	.000000	.000000	.000000	.000000
DAIRY PRODUCTS 9	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
FRUIT & VEG. PROD. 10	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
FEED, FLR. CEREALS 11	.000000	.000000	.000000	.000000	.001219	.000000	.000000	.000000
BAKERY PRODUCTS 12	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
SUGAR, CONFECT. 13	.001546	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTHER FOOD PROD. 14	.000000	.000999	.001765	.011644	.003846	.000090	.001126	.004262
SOFT DRINKS 15	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ALCOHOLIC BEV. 16	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000025
TOBACCO PRODUCTS 17	.226307	.000000	.000000	.000000	.000000	.000000	.000000	.000000
RUBBER PRODUCTS 18	.000000	.025591	.034875	.005804	.003076	.002438	.000660	.004401
LEATHER PRODUCTS 19	.000000	.008162	.207956	.000000	.000000	.002682	.000602	.000451
SYNTHET. TEXTILES 20	.000000	.005502	.000484	.237680	.088507	.215562	.082404	.057548
COTTON, YARN, CLOTH 21	.000000	.081488	.019370	.015807	.183220	.106146	.139740	.112787
KNITTED PRODUCTS 22	.000000	.000000	.001856	.000000	.000000	.047888	.045449	.003014
CLOTHING 23	.000000	.002351	.002201	.010617	.003863	.023973	.043190	.014331
OTHER TEXTILES 24	.000006	.016448	.013957	.016883	.033714	.099059	.117487	.189938
SAWMILL PROD. 25	.000206	.000121	.000559	.000000	.000000	.000000	.000000	.000025



TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	TOBACCO PROD.IND. 17	RUBBER PROD. MFG 18	LEATHER PROD.MFG. 19	SYNTHETIC TEXTILE MILLS 20	COTTON YARN, CLOTH MILLS 21	KNITTING MILLS 22	CLOTHING INDUSTRIES 23	OTHER TEXTILE IND. 24
COMMODITY(ROWS)								
FURNITURE, FIXTRS 26	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000091
OTHER WOOD PROD. 27	.002740	.000327	.002804	.000012	.000055	.000018	.000002	.005021
PULP AND PAPER 28	.008627	.001376	.005185	.022094	.001083	.001488	.000764	.006170
OTHER PAPER PROD.29	.069658	.010666	.012128	.007677	.008191	.014589	.007142	.010961
PRINTED MATTER 30	.002797	.000094	.000000	.000000	.000000	.000213	.000000	.000081
STEEL MILL PROD. 31	.000000	.000866	.000616	.000000	.000000	.000000	.000000	.000040
SMELT.&REF.PROD. 32	.000000	.004507	.000000	.000000	.000000	.000000	.000000	.001379
OTH.PRIMARY METAL33	.000000	.000150	.000000	.000000	.000000	.000000	.000000	.000207
STRUCTURAL METAL 34	.000000	.000253	.000000	.000235	.000000	.000041	.000191	.000630
METAL STAMPINGS 35	.003325	.002247	.000650	.000319	.000000	.000000	.000001	.000623
OTHER METAL PROD.36	.000000	.011022	.007360	.000000	.000000	.000000	.000000	.002130
MACHINERY (NES) 37	.000764	.002035	.000566	.001442	.000791	.000656	.000372	.000567
AIRCRAFT & PARTS 38	.000000	.000872	.000000	.000000	.000000	.000000	.000000	.000000
MOTOR VEHICLES 39	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
VEHICLE PARTS 40	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTH. TRANSP.EQUIP41	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ELEC. APPLIANCES 42	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ELEC. IND. EQUIP.43	.000000	.000000	.000000	.000000	.001451	.000000	.000000	.000000
COM.EQUIP.,WIRE 44	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTHER ELEC.PROD. 45	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
CLAY,LIME,CEMENT 46	.000000	.000000	.000329	.000000	.000000	.000000	.000000	.000000
A.O.NON-METALLIC 47	.000000	.000533	.000085	.001617	.000000	.000000	.000000	.001757
PETR. PROD. 48	.000827	.003452	.001514	.007708	.002056	.002026	.000685	.003529
PLASTIC,SYN.RESIN49	.000006	.012192	.000230	.014588	.000317	.000068	.000464	.007922
PAINT & VARNISH 50	.000000	.004106	.001074	.001319	.000093	.000000	.000000	.000486

TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

[illegible]

TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	SAWMILLS 25	FURNITURE & FIXTURE IND. 26	OTHER WOOD IND. 27	PULP AND PAPER MILLS 28	OTHER PAPER IND. 29	PRINTING, PUBLISHING 30	IRON AND STEEL MILLS 31	SMELTING, REFINING 32
COMMODITY(ROWS)	25	26	27	28	29	30	31	32
AGRICULTURAL PROD.1	.000000	.000000	.000189	.000092	.000065	.000000	.000000	.000000
FORESTRY PRODUCTS 2	.398583	.001955	.139722	.208709	.000022	.000002	.000263	.000032
FISH AND FUR 3	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
METAL ORES & CONC.4	.000000	.000000	.000000	.000079	.000000	.000000	.116503	.475151
NON-METAL MINERALS5	.000000	.000000	.000000	.004691	.002941	.000000	.005881	.002217
COAL 6	.000045	.001136	.000600	.011483	.000501	.000240	.057917	.007277
OIL AND NAT.GAS 7	.000009	.000104	.000121	.005102	.000107	.000081	.000663	.000808
MEAT PRODUCTS 8	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
DAIRY PRODUCTS 9	.000000	.000000	.000019	.000000	.000281	.000000	.000000	.000000
FRUIT & VEG.PROD.10	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
FEED,FLR.CEREALS 11	.000000	.000000	.000000	.000033	.000000	.000000	.000000	.000022
BAKERY PRODUCTS 12	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
SUGAR,CONFECT. 13	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTHER FOOD PROD. 14	.001157	.000000	.000230	.002866	.000031	.000000	.001117	.000000
SOFT DRINKS 15	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ALCOHOLIC BEV. 16	.000000	.000685	.000000	.000000	.000000	.000000	.000000	.000000
TOBACCO PRODUCTS 17	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
RUBBER PRODUCTS 18	.000000	.019333	.000015	.000000	.000499	.000151	.000000	.000000
LEATHER PRODUCTS 19	.000000	.001567	.000000	.000000	.000000	.000000	.000000	.000000
SYNTHET.TEXTILES 20	.000000	.035747	.001242	.000548	.000907	.003010	.000000	.000000
COTTON,YARN,CLOTH21	.000000	.017834	.000465	.000000	.001430	.001229	.000000	.000162
KNITTED PRODUCTS 22	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
CLOTHING 23	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTHER TEXTILES 24	.000000	.039711	.000676	.007829	.004196	.001137	.000038	.000000
SAWMILL PROD. 25	.075636	.051195	.153216	.025096	.004506	.000011	.000071	.000000



TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	SAWMILLS 25	FURNITURE & FIXTURE IND. 26	OTHER WOOD IND. 27	PULP AND PAPER MILLS 28	OTHER PAPER IND. 29	PRINTING, PUBLISHING 30	IRON AND STEEL MILLS 31	SMELTING, REFINING 32
FURNITURE, FIXTURES 26	.000000	.025896	.000000	.000000	.000000	.000000	.000000	.000000
OTHER WOOD PROD. 27	.000778	.032392	.053005	.000568	.000594	.000171	.002062	.000013
PULP AND PAPER 28	.000048	.006850	.001511	.046959	.350152	.179251	.001341	.000000
OTHER PAPER PROD. 29	.000237	.012745	.003860	.003691	.052037	.005037	.000217	.000589
PRINTED MATTER 30	.000000	.000407	.000000	.000000	.010472	.075235	.000000	.000000
STEEL MILL PROD. 31	.000594	.014438	.000671	.000045	.003958	.000000	.054221	.014049
SMELT. & REF. PROD. 32	.000000	.001540	.000048	.000240	.000248	.000041	.064599	.216702
OTH. PRIMARY METAL 33	.000000	.013949	.000390	.000000	.009996	.004595	.010727	.000832
STRUCTURAL METAL 34	.000608	.000273	.002625	.000011	.000540	.000008	.000929	.000000
METAL STAMPINGS 35	.000000	.004505	.008324	.000036	.001103	.000045	.000065	.000000
OTHER METAL PROD. 36	.000127	.059298	.008591	.008059	.000714	.000082	.003512	.000000
MACHINERY (NES) 37	.000045	.000194	.000194	.000525	.000334	.000613	.008847	.001762
AIRCRAFT & PARTS 38	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
MOTOR VEHICLES 39	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
VEHICLE PARTS 40	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTH. TRANSP. EQUIP 41	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000061
ELEC. APPLIANCES 42	.000000	.000016	.000000	.000000	.000000	.000000	.000000	.000000
ELEC. IND. EQUIP. 43	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COM. EQUIP., WIRE 44	.000000	.000066	.000000	.000000	.000000	.000000	.000000	.000000
OTHER ELEC. PROD. 45	.000000	.004833	.000000	.000000	.000000	.000000	.000000	.000000
CLAY, LIME, CEMENT 46	.000000	.000000	.000092	.001320	.005199	.000000	.019773	.004703
A.O. NON-METALLIC 47	.000012	.008671	.009702	.000345	.000742	.000002	.000565	.000000
PETR. PROD. 48	.008377	.001829	.009504	.010472	.013600	.002323	.013398	.004504
PLASTIC, SYN. RESIN 49	.000000	.000093	.017479	.000812	.015388	.000924	.000000	.000019
PAINT & VARNISH 50	.001231	.012737	.004194	.000128	.000859	.000197	.000000	.000000





TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	OTHER PRIMARY METAL IND. 33	STRUCTURAL, FABRIC.METAL 34	METAL STAMPING IND. 35	OTHER METAL WORKING IND. 36	MACHINERY (MFG.) 37	AIRCRAFT & PARTS MFG. 38	MOTOR VEHICLE MFG. 39	VEHICLE PARTS MFG. 40
AGRICULTURAL PROD.1	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
FORESTRY PRODUCTS 2	.000013	.000014	.000037	.000012	.000003	.000000	.000000	.000000
FISH AND FUR 3	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
METAL ORES & CONC.4	.000458	.000000	.000007	.000000	.000000	.000000	.000000	.000000
NON-METAL MINERALS5	.001361	.000032	.000000	.000662	.002928	.000000	.000013	.000805
COAL 6	.000952	.000389	.000487	.000793	.001028	.000491	.001472	.003446
OIL AND NAT.GAS 7	.000374	.000110	.000412	.000407	.000176	.000085	.000065	.000327
MEAT PRODUCTS 8	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
DAIRY PRODUCTS 9	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
FRUIT & VEG.PROD.10	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
FEED,FLR.CEREALS 11	.000027	.000000	.000000	.000000	.000000	.000000	.000000	.000000
BAKERY PRODUCTS 12	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
SUGAR,CONFECT. 13	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTHER FOOD PROD. 14	.000509	.000668	.000400	.000251	.000295	.000000	.000000	.000000
SOFT DRINKS 15	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ALCOHOLIC BEV. 16	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
TOBACCO PRODUCTS 17	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
RUBBER PRODUCTS 18	.001353	.000000	.000269	.001151	.007084	.009003	.036188	.005962
LEATHER PRODUCTS 19	.000000	.000000	.000000	.000000	.000001	.000000	.000091	.000000
SYNTHET.TEXTILES 20	.000000	.000000	.000000	.000063	.000000	.000000	.007420	.000248
COTTON,YARN,CLOTH21	.000000	.000000	.000000	.000101	.000123	.000000	.001741	.000259
KNITTED PRODUCTS 22	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
CLOTHING 23	.000000	.000000	.000000	.000000	.000007	.000000	.000000	.000000
OTHER TEXTILES 24	.000064	.000000	.000190	.000643	.000247	.000990	.016654	.000788
SAWMILL PROD. 25	.000286	.000261	.000775	.001663	.001853	.000000	.000886	.000290

TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	OTHER PRIMARY METAL IND. 33	STRUCTURAL, FABRIC-METAL 34	METAL STAMPING IND. 35	OTHER METAL WORKING IND. 36	MACHINERY (NES)MFG. 37	AIRCRAFT &PARTS MFG. 38	MOTOR VEHICLE MFG. 39	VEHICLE PARTS MFG. 40
COMMODITY(ROWS)								
FURNITURE, FIXTRS 26	.000748	.000000	.000632	.000080	.000000	.000000	.001154	.000000
OTHER WOOD PROD. 27	.001634	.000160	.004033	.001699	.000728	.001250	.000383	.000785
PULP AND PAPER 28	.002734	.001088	.000825	.000934	.000393	.000406	.000587	.001253
OTHER PAPER PROD. 29	.001775	.006654	.008167	.004485	.001493	.000483	.001012	.006568
PRINTED MATTER 30	.000000	.000000	.000077	.000045	.001949	.000000	.000000	.000000
STEEL MILL PROD. 31	.170028	.370568	.281250	.157873	.060647	.007578	.007157	.099604
SMELT. & REF. PROD. 32	.321157	.001221	.008187	.024062	.004115	.005179	.000292	.003235
OTH. PRIMARY METAL 33	.033480	.007157	.037305	.059883	.034451	.028797	.009737	.067560
STRUCTURAL METAL 34	.003217	.023875	.004618	.015251	.016817	.006887	.000934	.001013
METAL STAMPINGS 35	.000784	.003969	.070869	.007986	.010806	.009595	.005226	.015303
OTHER METAL PROD. 36	.008768	.037644	.036833	.098228	.082314	.042337	.024018	.063149
MACHINERY (NES) 37	.003139	.016751	.002712	.005453	.113642	.015243	.004639	.013693
AIRCRAFT & PARTS 38	.000000	.000000	.000000	.000000	.000000	.204679	.000000	.000000
MOTOR VEHICLES 39	.000000	.000000	.000198	.000279	.000145	.000000	.002181	.000000
VEHICLE PARTS 40	.000000	.000000	.001393	.000675	.003492	.004732	.408825	.170812
OTH. TRANSP. EQUIP 41	.000000	.000000	.000032	.000062	.000000	.000000	.000000	.000000
ELEC. APPLIANCES 42	.000000	.000430	.002578	.002111	.003405	.000000	.002013	.000000
ELEC. IND. EQUIP. 43	.000000	.003270	.000205	.003709	.022819	.000488	.001665	.000825
COM. EQUIP., WIRE 44	.000000	.001674	.000496	.000398	.016878	.023667	.004473	.003992
OTHER ELEC. PROD. 45	.000000	.000421	.000000	.000134	.000184	.001184	.008779	.001909
CLAY, LIME, CEMENT 46	.000759	.000133	.000000	.000569	.000244	.000110	.000007	.002945
A.O. NON-METALLIC 47	.000418	.000059	.004127	.005022	.000907	.002851	.017985	.002230
PETR. PROD. 48	.004419	.002497	.002151	.003011	.002160	.004578	.001099	.002843
PLASTIC, SYN. RESIN 49	.000735	.000000	.005527	.001365	.000549	.001872	.000281	.004099
PAINT & VARNISH 50	.000523	.002168	.010859	.002037	.002383	.000463	.010264	.000678







TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	OTHER TRANS- PORT EQUIP. 41	ELECTRICAL APPLIANCE IND. 42	ELEC.IND. EQUIP.MFG. 43	COM. EQUIP. INCL. WIRE 44	OTHER ELEC. PROD. MFG. 45	CLAY,LIME NON-METAL MIN CEMENT MFG. 46	PETROL.COAL PROD. MFG. 48
AGRICULTURAL PROD.1	.000000	.000000	.000000	.000000	.000000	.000000	.000000
FORESTRY PRODUCTS 2	.000052	.000000	.000000	.000000	.000000	.000388	.000000
FISH AND FUR 3	.000000	.000000	.000000	.000000	.000000	.000000	.000000
METAL DRES & CONC.4	.000000	.000000	.000000	.000427	.000079	.003280	.000188
NON-METAL MINERALS5	.000213	.000707	.000272	.000164	.000456	.060300	.000770
COAL 6	.001490	.000968	.001703	.000406	.000356	.016463	.001095
OIL AND NAT.GAS 7	.000104	.000218	.000110	.000107	.000110	.002378	.001364
MEAT PRODUCTS 8	.000000	.000000	.000000	.000015	.000000	.000002	.000000
DAIRY PRODUCTS 9	.000000	.000000	.000000	.000000	.000000	.000000	.000000
FRUIT & VEG.PROD.10	.000000	.000000	.000000	.000000	.000000	.000000	.000000
FEED,FLR.CEREALS 11	.000000	.000000	.000000	.000000	.000013	.000000	.000066
BAKERY PRODUCTS 12	.000000	.000000	.000000	.000000	.000000	.000000	.000000
SUGAR,CONFECT. 13	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTHER FOOD PROD. 14	.000000	.000000	.000000	.000000	.000000	.000810	.000154
SOFT DRINKS 15	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ALCOHOLIC BEV. 16	.000000	.000000	.000000	.000000	.000000	.000000	.000000
TOBACCO PRODUCTS 17	.000000	.000000	.000000	.000000	.000000	.000000	.000000
RUBBER PRODUCTS 18	.011810	.008490	.005031	.011170	.021044	.000661	.000246
LEATHER PRODUCTS 19	.000604	.000033	.000000	.000000	.000000	.000000	.000000
SYNTHET.TEXTILES 20	.000000	.000000	.000000	.001492	.000019	.000000	.000474
COTTON,YARN,CLOTH21	.000599	.000337	.001234	.002092	.000151	.000582	.000651
KNITTED PRODUCTS 22	.000000	.000000	.000000	.000000	.000000	.000000	.000000
CLOTHING 23	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTHER TEXTILES 24	.003722	.000406	.000939	.001804	.000223	.000126	.000250
SAWMILL PROD. 25	.007705	.000493	.000799	.000376	.000390	.000239	.000724

TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY (COLUMNS) COMMODITY (ROWS)	OTHER TRANS- PORT EQUIP. 41	ELECTRICAL APPLIANCE IND. 42	ELEC. IND. EQUIP. MFG. 43	COM. EQUIP. INCL. WIRE 44	OTHER ELEC. PROD. MFG. 45	CLAY, LIME CEMENT MFG. 46	NON-METAL MIN PROD. (NES) 47	PETROL. COAL PROD. MFG. 48
FURNITURE, FIXTURES 26	.001568	.007689	.003464	.000038	.025411	.000000	.000092	.000000
OTHER WOOD PROD. 27	.001668	.001776	.001269	.001065	.000330	.000350	.002834	.000068
PULP AND PAPER 28	.001381	.000384	.003367	.004037	.001724	.011773	.003571	.000000
OTHER PAPER PROD. 29	.000382	.017255	.002731	.002686	.009615	.011959	.025634	.001113
PRINTED MATTER 30	.000000	.000000	.000000	.000000	.000000	.000130	.000079	.000000
STEEL MILL PROD. 31	.090721	.074527	.045816	.007378	.028312	.006985	.000290	.000029
SMELT. & REF. PROD. 32	.013269	.003462	.012771	.024276	.017804	.003741	.006410	.001805
OTH. PRIMARY METAL 33	.024966	.034039	.033216	.124674	.020623	.000825	.000860	.000000
STRUCTURAL METAL 34	.004921	.006210	.000119	.000717	.001010	.000311	.000272	.000000
METAL STAMPINGS 35	.001116	.030686	.038269	.011452	.003590	.000194	.001750	.006933
OTHER METAL PROD. 36	.048229	.110386	.035310	.011061	.013160	.011775	.004049	.000000
MACHINERY (NES) 37	.028736	.067433	.008218	.002963	.000900	.001092	.001272	.000957
AIRCRAFT & PARTS 38	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
MOTOR VEHICLES 39	.000000	.000305	.000026	.000000	.000000	.000000	.000000	.000000
VEHICLE PARTS 40	.004209	.000000	.002327	.000000	.000000	.000000	.000000	.000000
OTH. TRANSP. EQUIP. 41	.089857	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ELEC. APPLIANCES 42	.000821	.052277	.023597	.000000	.004666	.000000	.000000	.000000
ELEC. IND. EQUIP. 43	.003953	.050682	.067261	.024455	.033207	.002016	.000000	.000000
COM. EQUIP., WIRE 44	.017821	.007065	.056260	.095733	.192873	.000000	.000000	.000000
OTHER ELEC. PROD. 45	.006945	.001932	.004474	.003710	.033151	.000000	.001772	.000000
CLAY, LIME, CEMENT 46	.000951	.000185	.009136	.000702	.000500	.115869	.017491	.000001
A.O. NON-METALLIC 47	.008561	.001921	.002590	.007265	.012975	.004266	.090234	.000023
PETR. PROD. 48	.004343	.002215	.002761	.001390	.001586	.015847	.012372	.011090
PLASTIC, SYN. RESIN 49	.001720	.001247	.001431	.022999	.017697	.000113	.008858	.000620
PAINT & VARNISH 50	.004517	.007323	.002454	.003066	.003819	.001173	.001101	.000007





TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	49	PLASTIC AND SYN.RESIN IND.	PAINT AND VARNISH MFG. 50	PHARM.SOAP TOILET MFG. 51	OTH.CHEMICAL INDUSTRIES 52	MISC.MFG. INDUSTRIES 53	CONSTRUCTION INDUSTRIES 54	WHOLESALE RETAIL TRADE 55	TRANSPORT & STORAGE 56
AGRICULTURAL PROD.1	.000000	.000000	.000006	.001278	.000103	.000200	.001249	.029634	.000167
FORESTRY PRODUCTS 2	.000000	.000000	.000000	.000000	.000168	.000006	.002457	.000443	.000000
FISH AND FUR 3	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
METAL ORES & CONC.4	.000000	.000000	.000000	.000000	.000852	.013256	.000000	.000049	.000000
NON-METAL MINERALS5	.000000	.000000	.005691	.000930	.023552	.000496	.009443	.000017	.000323
COAL 6	.002212	.000322	.000322	.001422	.010692	.000887	.000000	.000043	.001011
OIL AND NAT.GAS 7	.000904	.000109	.000109	.000089	.006593	.000089	.000000	.000283	.000228
MEAT PRODUCTS 8	.000000	.000000	.000000	.008516	.001402	.000196	.000000	.000564	.000000
DAIRY PRODUCTS 9	.000473	.000473	.001326	.000245	.000294	.000000	.000000	.000620	.000000
FRUIT & VEG.PROD.10	.000000	.000000	.000000	.000016	.000000	.000000	.000000	.000000	.000000
FEED,FLR.CEREALS 11	.000000	.000000	.000000	.000106	.000543	.000000	.000000	.000699	.000207
BAKERY PRODUCTS 12	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
SUGAR,CONFECT. 13	.000000	.000000	.000000	.000991	.000070	.000037	.000000	.000044	.000000
OTHER FOOD PROD. 14	.012971	.032065	.032065	.048658	.007213	.000708	.000000	.000119	.000000
SOFT DRINKS 15	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ALCOHOLIC BEV. 16	.001309	.001030	.001030	.002624	.000999	.000000	.000039	.000000	.000000
TOBACCO PRODUCTS 17	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
RUBBER PRODUCTS 18	.000000	.000000	.011562	.000052	.000434	.001915	.003716	.001787	.005520
LEATHER PRODUCTS 19	.000000	.000000	.000000	.000000	.000000	.002963	.000040	.000013	.000052
SYNTHET.TEXTILES 20	.014533	.000000	.000000	.000393	.000123	.003919	.000691	.001963	.000000
COTTON,YARN,CLOTH21	.000000	.000000	.000000	.005428	.000387	.006127	.000043	.001116	.000546
KNITTED PRODUCTS 22	.000000	.000000	.000000	.000000	.000000	.000503	.000000	.000000	.000000
CLOTHING 23	.000000	.000000	.000000	.000000	.000000	.000114	.000000	.002472	.000000
OTHER TEXTILES 24	.000633	.000264	.000264	.000325	.000845	.005957	.006190	.002361	.001033
SAWMILL PROD. 25	.000000	.000000	.000000	.000000	.000015	.008336	.023680	.001034	.000002



TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS) COMMODITY(ROWS)	PLASTIC AND SYN.RESIN IND.		PAINT AND VARNISH MFG.		PHARM.SOAP OTH.CHEMICAL TOILET MFG. INDUSTRIES		MISC.MFG. INDUSTRIES		CONSTRUCTION INDUSTRIES		WHOLESALE RETAIL TRADE		TRANSPORT & STORAGE	
	49	50	50	51	51	52	53	54	55	56				
FURNITURE, FIXTRS	26	.000000	.000000	.000000	.000000	.000000	.000019	.001731	.000000	.000103				
OTHER WOOD PROD.	27	.001562	.000006	.000165	.0001280	.0001280	.000980	.034871	.000334	.000000				
PULP AND PAPER	28	.038440	.001403	.002721	.002536	.002536	.014090	.003405	.002801	.000159				
OTHER PAPER PROD.	29	.008825	.011446	.047763	.017003	.017003	.011048	.007351	.009905	.000393				
PRINTED MATTER	30	.000000	.000000	.000287	.000151	.000151	.000393	.000000	.001317	.000696				
STEEL MILL PROD.	31	.000000	.000451	.000000	.006359	.006359	.012963	.017768	.000238	.001246				
SMELT.&REF.PROD.	32	.000709	.004294	.000579	.008236	.008236	.018121	.000000	.000055	.000022				
OTH.PRIMARY METAL	33	.000000	.000000	.000000	.001343	.001343	.028816	.037503	.000052	.000566				
STRUCTURAL METAL	34	.000000	.000000	.000000	.000015	.000015	.002155	.027363	.000000	.000093				
METAL STAMPINGS	35	.004104	.046936	.011493	.011190	.011190	.022137	.011881	.001241	.000010				
OTHER METAL PROD.	36	.002153	.002742	.007153	.000378	.000378	.008488	.070996	.002223	.000894				
MACHINERY (NES)	37	.001148	.001056	.004117	.000842	.000842	.001579	.018080	.000807	.001945				
AIRCRAFT & PARTS	38	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.003330				
MOTOR VEHICLES	39	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000				
VEHICLE PARTS	40	.000000	.000000	.000000	.000000	.000000	.000131	.001253	.000000	.008080				
OTH. TRANSP.EQUIP	41	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.008247				
ELEC. APPLIANCES	42	.000000	.000000	.000000	.000158	.000011	.000574	.001503	.000000	.000000				
ELEC. IND. EQUIP.	43	.000000	.000000	.000000	.000000	.000000	.003233	.006596	.000000	.000034				
COM.EQUIP., WIRE	44	.000000	.000000	.000007	.000007	.000043	.002077	.017481	.000071	.000123				
OTHER ELEC.PROD.	45	.000000	.000000	.000000	.000000	.000000	.001762	.014137	.000000	.001008				
CLAY, LIME, CEMENT	46	.000000	.000148	.000038	.0001210	.0001210	.000691	.054438	.000064	.000037				
A.O.NON-METALLIC	47	.000000	.000085	.029863	.001884	.001884	.012208	.012575	.000179	.000438				
PETR. PROD.	48	.029649	.027282	.002876	.050298	.050298	.002561	.014817	.019473	.039620				
PLASTIC, SYN.RESIN	49	.052821	.076645	.001676	.010520	.010520	.080037	.000148	.000541	.000000				
PAINT & VARNISH	50	.000236	.014909	.000000	.001288	.001288	.003013	.006077	.000000	.000066				

TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY (COLUMNS) COMMODITY (ROWS)	49	50	51	52	53	54	55	56
	PLASTIC AND SYN. RESIN IND.	PAINT AND VARNISH MFG.	PHARM. SOAP TOILET MFG.	CHEMICAL INDUSTRIES	MISC. MFG. INDUSTRIES	CONSTRUCTION INDUSTRIES	WHOLESALE RETAIL TRADE	TRANSPORT & STORAGE
PHARM. SOAP, TOILET	51	50	51	52	53	54	55	56
52	53	54	55	56	57	58	59	60
51	52	53	54	55	56	57	58	59
50	51	52	53	54	55	56	57	58
49	50	51	52	53	54	55	56	57
51	52	53	54	55	56	57	58	59
52	53	54	55	56	57	58	59	60
53	54	55	56	57	58	59	60	61
54	55	56	57	58	59	60	61	62
55	56	57	58	59	60	61	62	63
56	57	58	59	60	61	62	63	64
57	58	59	60	61	62	63	64	65
58	59	60	61	62	63	64	65	66
59	60	61	62	63	64	65	66	67
60	61	62	63	64	65	66	67	68
61	62	63	64	65	66	67	68	69
62	63	64	65	66	67	68	69	70
63	64	65	66	67	68	69	70	71
64	65	66	67	68	69	70	71	72
65	66	67	68	69	70	71	72	73
66	67	68	69	70	71	72	73	74
67	68	69	70	71	72	73	74	75
68	69	70	71	72	73	74	75	76
69	70	71	72	73	74	75	76	77
70	71	72	73	74	75	76	77	78
71	72	73	74	75	76	77	78	79
72	73	74	75	76	77	78	79	80
73	74	75	76	77	78	79	80	81
74	75	76	77	78	79	80	81	82
75	76	77	78	79	80	81	82	83
76	77	78	79	80	81	82	83	84
77	78	79	80	81	82	83	84	85
78	79	80	81	82	83	84	85	86
79	80	81	82	83	84	85	86	87
80	81	82	83	84	85	86	87	88
81	82	83	84	85	86	87	88	89
82	83	84	85	86	87	88	89	90
83	84	85	86	87	88	89	90	91
84	85	86	87	88	89	90	91	92
85	86	87	88	89	90	91	92	93
86	87	88	89	90	91	92	93	94
87	88	89	90	91	92	93	94	95
88	89	90	91	92	93	94	95	96
89	90	91	92	93	94	95	96	97
90	91	92	93	94	95	96	97	98
91	92	93	94	95	96	97	98	99
92	93	94	95	96	97	98	99	100
93	94	95	96	97	98	99	100	101
94	95	96	97	98	99	100	101	102
95	96	97	98	99	100	101	102	103
96	97	98	99	100	101	102	103	104
97	98	99	100	101	102	103	104	105
98	99	100	101	102	103	104	105	106
99	100	101	102	103	104	105	106	107
100	101	102	103	104	105	106	107	108
101	102	103	104	105	106	107	108	109
102	103	104	105	106	107	108	109	110
103	104	105	106	107	108	109	110	111
104	105	106	107	108	109	110	111	112
105	106	107	108	109	110	111	112	113
106	107	108	109	110	111	112	113	114
107	108	109	110	111	112	113	114	115
108	109	110	111	112	113	114	115	116
109	110	111	112	113	114	115	116	117
110	111	112	113	114	115	116	117	118
111	112	113	114	115	116	117	118	119
112	113	114	115	116	117	118	119	120
113	114	115	116	117	118	119	120	121
114	115	116	117	118	119	120	121	122
115	116	117	118	119	120	121	122	123
116	117	118	119	120	121	122	123	124
117	118	119	120	121	122	123	124	125
118	119	120	121	122	123	124	125	126
119	120	121	122	123	124	125	126	127
120	121	122	123	124	125	126	127	128
121	122	123	124	125	126	127	128	129
122	123	124	125	126	127	128	129	130
123	124	125	126	127	128	129	130	131
124	125	126	127	128	129	130	131	132
125	126	127	128	129	130	131	132	133
126	127	128	129	130	131	132	133	134
127	128	129	130	131	132	133	134	135
128	129	130	131	132	133	134	135	136
129	130	131	132	133	134	135	136	137
130	131	132	133	134	135	136	137	138
131	132	133	134	135	136	137	138	139
132	133	134	135	136	137	138	139	140
133	134	135	136	137	138	139	140	141
134	135	136	137	138	139	140	141	142
135	136	137	138	139	140	141	142	143
136	137	138	139	140	141	142	143	144
137	138	139	140	141	142	143	144	145
138	139	140	141	142	143	144	145	146
139	140	141	142	143	144	145	146	147
140	141	142	143	144	145	146	147	148
141	142	143	144	145	146	147	148	149
142	143	144	145	146	147	148	149	150
143	144	145	146	147	148	149	150	151
144	145	146	147	148	149	150	151	152
145	146	147	148	149	150	151	152	153
146	147	148	149	150	151	152	153	154
147	148	149	150	151	152	153	154	155
148	149	150	151	152	153	154	155	156
149	150	151	152	153	154	155	156	157
150	151	152	153	154	155	156	157	158
151	152	153	154	155	156	157	158	159
152	153	154	155	156	157	158	159	160
153	154	155	156	157	158	159	160	161
154	155	156	157	158	159	160	161	162
155	156	157	158	159	160	161	162	163
156	157	158	159	160	161	162	163	164
157	158	159	160	161	162	163	164	165
158	159	160	161	162	163	164	165	166
159	160	161	162	163	164	165	166	167
160	161	162	163	164	165	166	167	168
161	162	163	164	165	166	167	168	169
162	163	164	165	166	167	168	169	170
163	164	165	166	167	168	169	170	171
164	165	166	167	168	169	170	171	172
165	166	167	168	169	170	171	172	173
166	167	168	169	170	171	172	173	174
167	168	169	170	171	172	173	174	175
168	169	170	171	172	173	174	175	176
169	170	171	172	173	174	175	176	177
170	171	172	173	174	175	176	177	178
171	172	173	174	175	176	177	178	179
172	173	174	175	176	177	178	179	180
173	174	175	176	177	178	179	180	181
174	175	176	177	178	179	180	181	182
175	176	177	178	179	180	181	182	183
176	177	178	179	180	181	182	183	184
177	178	179	180	181	182	183	184	185
178	179	180	181	182	183	184	185	186
179	180	181	182	183	184	185	186	187
180	181	182	183	184	185	186	187	188
181	182	183	184	185	186	187	188	189
182	183	184	185	186	187	188	189	190
183	184	185	186	187	188	189	190	191
184	185	186	187	188	189	190	191	192
185	186	187	188	189	190	191	192	193
186	187	188	189	190	191	192	193	194
187	188	189	190	191	192	193	194	195
188	189	190	191	192	193	194	195	196
189	190	191	192	193	194	195	196	197
190	191	192	193	194	195	196	197	198
191	192	193	194	195	196	197	198	199
192	193	194	195	196	197	198	199	200
193	194	195	196	197	198	199	200	201
194	195	196	197	198	199	200	201	202
195	196	197	198	199	200	201	202	203
196	197	198	199	200	201	202	203	204
197	198	199	200	201	202	203	204	205
198	199	200	201	202	203	204	205	206
199	200	201	202	203	204	205	206	207
200	201	202	203	204	205	206	207	208
201	202	203	204	205	206	207	208	209
202	203	204	205	206	207	208	209	210
203	204	205	206	207	208	209	210	211
204	205	206	207	208	209	210	211	212
205	206	207	208	209	210	211	212	213
20								

TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	COMMUNI- CATIONS 57	UTILITIES 58	FINANCE,INS. REAL ESTATE 59	BUSINESS SERVICES 60	HOTEL AND RESTAURANT 61	OTHER SERVICES 62	OFFICE SUPPLIES(D) 63	ADVTG. AND TRAVEL(D) 64
COMMODITY(ROWS)								
AGRICULTURAL PROD.1	.000000	.000000	.000000	.000000	.033340	.000590	.000000	.000000
FORESTRY PRODUCTS 2	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
FISH AND FUR 3	.000000	.000000	.000000	.000000	.000972	.000000	.000000	.000000
METAL ORES & CONC.4	.000000	.000000	.000000	.000000	.000000	.000212	.000000	.000000
NON-METAL MINERALS5	.000000	.000000	.000000	.000000	.000400	.000010	.000000	.000000
COAL 6	.000000	.005464	.000000	.000000	.000000	.000111	.000000	.000000
OIL AND NAT.GAS 7	.000012	.000631	.000167	.000021	.000090	.000053	.000000	.000000
MEAT PRODUCTS 8	.000000	.000000	.000000	.000000	.077459	.000000	.000000	.000000
DAIRY PRODUCTS 9	.000000	.000000	.000000	.000000	.055520	.000003	.000000	.000000
FRUIT & VEG.PROD.10	.000000	.000000	.000000	.000000	.025032	.000000	.000000	.000000
FEED,FLR.CEREALS 11	.000000	.000000	.000000	.000000	.005657	.000048	.000000	.000000
BAKERY PRODUCTS 12	.000000	.000000	.000000	.000000	.033791	.000000	.000000	.000000
SUGAR,CONFECT. 13	.000000	.000000	.000000	.000000	.006517	.000000	.000000	.000000
OTHER FOOD PROD. 14	.000000	.000000	.000000	.000000	.019857	.000798	.000000	.000000
SOFT DRINKS 15	.000000	.000000	.000000	.000000	.012246	.000000	.000000	.002566
ALCOHOLIC BEV. 16	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.027026
TOBACCO PRODUCTS 17	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
RUBBER PRODUCTS 18	.000000	.000000	.000000	.000000	.000000	.000931	.030733	.000000
LEATHER PRODUCTS 19	.000000	.000000	.000000	.000000	.000000	.000826	.002520	.002095
SYNTHET.TEXTILES 20	.000000	.000000	.000000	.000000	.000000	.000624	.000000	.000000
COTTON,YARN,CLOTH21	.000040	.000000	.000000	.000000	.007512	.003820	.000000	.000000
KNITTED PRODUCTS 22	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
CLOTHING 23	.000187	.000000	.000000	.000000	.000597	.000000	.000000	.000000
OTHER TEXTILES 24	.000946	.000000	.000000	.000092	.003017	.004744	.000000	.000000
SAWMILL PROD. 25	.000019	.001608	.000078	.000000	.000000	.000054	.000000	.000000



TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS -- AGGREGATION M (SEE CHAPTER 4)

INDUSTRY(COLUMNS)	COMMUNI- CATIONS 57	UTILITIES 58	FINANCE,INS. REAL ESTATE 59	BUSINESS SERVICES 60	HOTEL AND RESTAURANT 61	OTHER SERVICES 62	OFFICE SUPPLIES(D) 63	ADVTG. AND TRAVEL(D) 64
COMMODITY(ROWS)	57	58	59	60	61	62	63	64
FURNITURE, FIXTRS 26	.000016	.000000	.000000	.000000	.000375	.000007	.000000	.000000
OTHER WOOD PROD. 27	.000040	.000000	.000000	.000000	.000000	.006158	.000265	.000000
PULP AND PAPER 28	.000000	.000000	.000000	.000733	.004949	.000597	.002180	.000000
OTHER PAPER PROD. 29	.000192	.000000	.000044	.000302	.005013	.001036	.116089	.000000
PRINTED MATTER 30	.008110	.000304	.001214	.001109	.000000	.001130	.577542	.288772
SIFEL MILL PROD. 31	.000000	.000000	.000000	.000000	.000000	.000079	.000000	.000000
SMELT.&REF.PROD. 32	.000000	.000000	.000000	.000000	.000000	.000683	.000000	.000000
OTH.PRIMARY METAL 33	.000000	.000000	.000000	.000000	.000000	.000246	.000000	.000000
STRUCTURAL METAL 34	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
METAL STAMPINGS 35	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
OTHER METAL PROD. 36	.000091	.000000	.000000	.000000	.000154	.001627	.008507	.000000
MACHINERY (NES) 37	.001024	.001579	.001388	.000864	.000057	.000139	.000000	.000000
AIRCRAFT & PARTS 38	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
MOTOR VEHICLES 39	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
VEHICLE PARTS 40	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
UTH. TRANSP.EQUIP 41	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
FLEC. APPLIANCES 42	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
ELEC. IND. EQUIP. 43	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COM.EQUIP..WIRE 44	.008468	.000000	.000000	.000000	.000000	.000016	.000000	.000000
OTHER ELEC.PROD. 45	.000817	.000000	.000000	.000000	.000000	.000021	.000000	.000000
CLAY,LIME,CEMENT 46	.000000	.000000	.000000	.000000	.001080	.000012	.000000	.000000
A.O.-NON-METALLIC 47	.000000	.000000	.000000	.000000	.001276	.000089	.000000	.000687
PETR. PROD. 48	.001865	.005496	.001392	.001625	.005860	.008916	.000000	.000000
PLASTIC, SYN.RESIN 49	.000000	.000000	.000000	.000000	.000000	.000272	.000000	.000000
PAINT & VARNISH 50	.000000	.000000	.001854	.000000	.000000	.000000	.000000	.000000





TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

IND.65 & FINAL DEMAND COMMODITY(ROWS)	OPERATING INTERMEDIATE SUPPLIES(D) INPUTS(11-65) 65	NET EXPORTS 67	RE-EXPORTS 68	IMPORTS 69	INVENTORY CHANGE 70	OTHER FINAL DEMAND 71
AGRICULTURAL PROD.1	.006372	.113255	.000000	.000000	.000000	.012204
FORESTRY PRODUCTS 2	.000000	.006050	.000000	.000000	.000000	.000960
FISH AND FUR 3	.000228	.003375	.000000	.000000	.000000	.000146
METAL ORES & CONC.4	.000000	.073196	.000000	.000000	.000000	.000000
NON-METAL MINERALS5	.000042	.021573	.000000	.000000	.000000	.000305
COAL 6	.000000	.001147	.000000	.000000	.000000	.001180
OIL AND NAT.GAS 7	.000000	.029397	.000000	.000000	.000000	.003883
MEAT PRODUCTS 8	.012729	.009835	.000000	.000000	.000000	.028572
DAIRY PRODUCTS 9	.007590	.003409	.000000	.000000	.000000	.017725
FRUIT & VEG.PROD.10	.003786	.001247	.000000	.000000	.000000	.008432
FEED,FLR.CEREALS 11	.000751	.009721	.000000	.000000	.000000	.002265
BAKERY PRODUCTS 12	.004433	.000501	.000000	.000000	.000000	.009963
SUGAR,CONFECT. 13	.001008	.000258	.000000	.000000	.000000	.004972
OTHER FOOD PROD. 14	.003629	.023123	.000000	.000000	.000000	.007869
SOFT DRINKS 15	.001918	.000010	.000000	.000000	.000000	.003360
ALCOHOLIC BEV. 16	.000000	.012496	.000000	.000000	.000000	.008096
TOBACCO PRODUCTS 17	.000000	.003964	.000000	.000000	.000000	.005820
RUBBER PRODUCTS 18	.042213	.001014	.000000	.000000	.000000	.002700
LEATHER PRODUCTS 19	.000345	.002162	.000000	.000000	.000000	.006112
SYNTHET.TEXTILES 20	.000174	.002837	.000000	.000000	.000000	.000360
COTTON,YARN,CLOTH21	.000460	.001543	.000000	.000000	.000000	.001062
KNITTED PRODUCTS 22	.000000	.000242	.000000	.000000	.000000	.005079
CLOTHING 23	.002117	.001124	.000000	.000000	.000000	.020494
OTHER TEXTILES 24	.007135	.001665	.000000	.000000	.000000	.004921
SAWMILL PROD. 25	.000414	.050051	.000000	.000000	.000000	.000168

TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

IND. & FINAL DEMAND COMMODITY(ROWS)	OPERATING INTERMEDIATE SUPPLIES(D) INPUTS(1-65) 65	NET EXPORTS 66	RE-EXPORTS 67	IMPORTS 68	INVENTORY CHANGE 70	OTHER FINAL DEMAND 71
FURNITURE, FIXTRS 26	.000000	.000551	.000325	.000000	.000000	.008994
OTHER WOOD PROD. 27	.000000	.005049	.005599	.000000	.000000	.000284
PULP AND PAPER 28	.005041	.008625	.157085	.000000	.000000	.000792
OTHER PAPER PROD. 29	.001025	.008015	.000608	.000000	.000000	.001794
PRINTED MATTER 30	.000000	.010370	.002269	.000000	.000000	.007498
STEEL MILL PROD. 31	.001166	.012507	.015918	.000000	.000000	.000000
SMELT. & REF. PROD. 32	.000000	.009500	.116075	.000000	.000000	-.001724
OTH. PRIMARY METAL 33	.003015	.008847	.008485	.000000	.000000	.000046
STRUCTURAL METAL 34	.000000	.003686	.000627	.000000	.000000	.000035
METAL STAMPINGS 35	.000000	.005074	.000459	.000000	.000000	.000981
OTHER METAL PROD. 36	.077073	.015826	.004216	.000000	.000000	.003185
MACHINERY (NES) 37	.146811	.009832	.021722	.000000	.000000	.024489
AIRCRAFT & PARTS 38	.000000	.001345	.013982	.000000	.000000	.008261
MOTOR VEHICLES 39	.000570	.000056	.003805	.000000	.000000	.027400
VEHICLE PARTS 40	.054260	.009247	.002197	.000000	.000000	.002049
OTH. TRANSP. EQUIP 41	.000245	.000817	.002511	.000000	.000000	.004474
ELEC. APPLIANCES 42	.001297	.000655	.000905	.000000	.000000	.007365
ELFC. IND. EQUIP. 43	.010043	.002183	.002113	.000000	.000000	.003872
COM. EQUIP., WIRE 44	.006662	.004600	.005761	.000000	.000000	.004291
OTHER ELEC. PROD. 45	.028235	.002761	.000812	.000000	.000000	.004489
CLAY, LIME, CEMENT 46	.000214	.007356	.001524	.000000	.000000	.000704
A.O. NON-METALLIC 47	.007457	.003594	.004166	.000000	.000000	.000868
PETR. PROD. 48	.002331	.012485	.001441	.000000	.000000	.013554
PLASTIC, SYN. RESIN 49	.000464	.002462	.004325	.000000	.000000	.000025
PAINT & VARNISH 50	.029616	.002255	.000177	.000000	.000000	.000379



TABLE 9 INDUSTRY INPUT AND FINAL EXPENDITURE COEFFICIENTS - AGGREGATION M (SEE CHAPTER 4)

IND. 65 & FINAL DEMAND COMMODITY (ROWS)	OPERATING SUPPLIES (D) 65	INTERMEDIATE INPUTS (1-65) 66	NET EXPORTS 67	RE-EXPORTS 68	IMPORTS 69	INVENTORY CHANGE 70	OTHER FINAL DEMAND 71
PHARM. SOAP, TOILET 51	.026301	.002084	.001710	.000000	.000000	.000000	.008011
OTHER CHEM PROD. 52	.029379	.011617	.024127	.000000	.000000	.000000	.001985
MISC. MFG. PROD. 53	.033444	.005547	.005701	.000000	.000000	.000000	.013380
CONSTRUCTION 54	.000000	.016136	.000000	.000000	.000000	.000000	.148413
TRADE, WH.&RETAIL 55	.327151	.031268	.015763	.000000	.000000	.000000	.121933
TRANSPORT, STORAGE 56	.020321	.028555	.078712	.000000	.000000	.000000	.029100
COMMUNICATIONS 57	.000000	.009275	.003518	.000000	.000000	.000000	.011126
UTILITIES 58	.000000	.012176	.002547	.000000	.000000	.000000	.011960
FIN. INSUR. RL. EST. 59	.000000	.027950	.002778	.000000	.000000	.000000	.127959
BUSINESS SERVICE 60	.000000	.008380	.001128	.000000	.000000	.000000	.004949
ACCOM. MEALS 61	.000000	.006705	.000000	.000000	.000000	.000000	.031185
OTHER SERVICES 62	.063181	.012822	.000917	.000000	.000000	.000000	.034604
OFFICE SUPPLIES 63	.000000	.005148	.000000	.000000	.000000	.000000	.000000
ADVTG. AND TRAVEL 64	.000000	.019582	.000000	.000000	.000000	.000000	.000000
OPERATING SUPPL. 65	.000000	.025755	.000000	.000000	.000000	.000000	.000000
NON-COMP. IMPORTS 66	.000501	.003205	-.000007	.000000	.000000	.000000	.002234
BAL. OF PAYMNT ADJ 67	.000000	.000000	.112664	.000000	.000000	.000000	.003402
COMMODITY TAXES 68	.028853	.008621	.000141	.000000	.000000	.000000	.048980
SUBSIDIES 69	.000000	-.004774	.000000	.000000	.000000	.000000	.000000
INDIR. TAX & GOV. SERV 70	.000000	.029565	.000000	.000000	.000000	.000000	-.001956
WAGES & SALARIES 71	.000000	.251960	.000000	.000000	.000000	.000000	.107774
NET-INC. UNICORP. 72	.000000	.056475	.000000	.000000	.000000	.000000	.000000
SURPLUS 73	.000000	.154120	.000000	.000000	.000000	.000000	.014209
SUB TOTAL (66-73) 74	.029354	.499172	.112798	.000000	.000000	.000000	.174643
TOTAL INPUTS 75	1.000000	1.000000	1.000000	.000000	.000000	.000000	1.000000



TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	AGRICULTURE PRODUCTS 1	FORESTRY PRODUCTS 2	FISH &FUR 3	METAL ORE&CONC. 4	NON-METAL MINERALS 5	COAL 6	OIL AND NATURAL GAS 7	MEAT PRODUCTS 8
INDUSTRY(ROWS)								
AGRICULTURE 1	1.103244	.101102	.005031	.004946	.008717	.007020	.011640	.588425
FORESTRY 2	.007882	1.037482	.007400	.001851	.004986	.005272	.002629	.008686
FISHING HUNTING 3	.001976	.000779	1.015037	.000272	.000941	.000345	.000294	.007508
METAL MINES 4	.004830	.005755	.005338	.958237	.005586	.004629	.021625	.004800
NON-METAL MINES 5	.002376	.001770	.003410	.004935	.976153	.001362	.002737	.002710
COAL MINES 6	.003081	.001913	.001519	.004289	.006500	1.005798	.001354	.003219
PETROLEUM NAT.GAS 7	.038278	.025646	.032719	.029806	.034761	.009926	1.016177	.027142
MEAT,POULTRY PROC.8	.005584	.003280	.000734	.001388	.002320	.001855	.001672	.895985
DAIRY FACTORIES 9	.001519	.001959	.000544	.000959	.001609	.001302	.001215	.003858
FRUIT,VEG.CANNERS10	.000719	.000866	.000205	.000415	.000708	.000568	.000524	.007275
FEED,FLR.CEREAL 11	.096158	.017500	.000793	.000802	.001421	.001091	.001731	.057262
BISCUIT,BAKERIES 12	.000528	.000935	.000237	.000462	.000778	.000635	.000612	.001829
SUGAR,CONFECT.IND13	.001656	.000645	.000128	.000227	.000429	.000301	.000297	.002817
OTHER FOOD IND. 14	.013422	.003980	.001093	.001549	.005926	.001705	.001529	.054387
SOFT DRINK MFG 15	.000258	.000472	.000121	.000237	.000394	.000320	.000331	.000659
ALCOHOLIC BEV.MFG16	.000952	.000799	.000322	.000416	.000690	.000451	.000783	.001805
TOBACCO PROD.IND.17	.000036	.000035	.000021	.000020	.000030	.000025	.000022	.001546
RUBBER PROD.MFG. 18	.006609	.008007	.003178	.004101	.006487	.005515	.004200	.006352
LEATHER PROD.MFG.19	.000274	.000409	.000280	.000200	.000338	.000258	.000259	.000438
SYN.TEXTILE MILLS20	.001973	.001818	.005782	.000862	.002070	.000961	.000901	.002760
COTTON,YARN,CLOTH21	.002731	.003026	.021832	.001174	.002860	.001412	.001204	.003390
KNITTING MILLS 22	.000212	.000167	.000490	.000066	.000209	.000075	.000073	.000306
CLOTHING IND. 23	.000734	.000740	.000881	.000348	.000692	.000463	.000371	.001159
OTHER TEXTILE IND24	.008395	.005464	.020863	.001844	.008504	.001861	.001669	.007966
SAWMILLS 25	.002166	.005950	.013238	.001198	.002086	.008935	.001685	.002731

TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	1	2	3	4	5	6	7	8
	AGRICULTURE PRODUCTS	FORESTRY PRODUCTS	FISH &FUR	METAL ORES&CONC.	NON-METAL MINERALS	COAL	OIL AND NATURAL GAS	MEAT PRODUCTS
FURNITURE, FIXTRS. 26	.000526	.000714	.001045	.000340	.000580	.000627	.000429	.000573
OTHER WOOD IND. 27	.003984	.004314	.003950	.001385	.003575	.001953	.001951	.004416
PULP&PAPER MILLS 28	.006643	.006610	.004134	.003919	.014505	.004547	.005546	.017488
OTHER PAPER IND. 29	.007992	.005459	.003996	.003220	.025955	.003398	.003749	.024982
PRINT. PUBLISHING 30	.008802	.012467	.005170	.006131	.010746	.008132	.014056	.018938
IRON, STEEL MILLS 31	.009297	.012919	.011724	.012692	.010378	.012360	.009276	.010622
SMELT. REFINING 32	.006401	.007560	.007093	.149690	.007649	.006205	.007085	.006376
OTH. PRIMARY METAL 33	.005218	.007377	.007358	.012599	.006484	.004843	.008214	.005441
STRUCTURAL METAL 34	.001859	.002725	.002627	.001656	.001815	.001616	.001960	.001735
METAL STAMPING 35	.004976	.005537	.006041	.004089	.004497	.003497	.003952	.010544
OTHER METAL MFG. 36	.013491	.024825	.013912	.012359	.015798	.014127	.012886	.013447
MACHINERY (NES) MFG 37	.020907	.025640	.024805	.023012	.025355	.024992	.024041	.017031
AIRCRAFT & PART MFG 38	.001491	.001438	.000951	.001170	.001383	.000923	.001866	.001463
MOTOR VEH. MFG. 39	.001246	.001856	.000865	.001029	.001539	.001339	.001042	.001323
VEHICLE PARTS MFG 40	.005211	.010206	.003032	.005463	.008195	.007193	.005318	.005854
OTH. TRANSP. EQUIP. 41	.001161	.001548	.015795	.001787	.001264	.002616	.001363	.001366
ELECT. APPLIANCE 42	.001119	.001870	.001213	.001072	.001378	.001253	.001152	.001119
ELEC. IND. EQUIP. 43	.001898	.003232	.002034	.001895	.002614	.002331	.002010	.001869
CON. EQUIP. & WIRE 44	.003287	.005182	.010460	.002970	.003912	.003433	.003321	.003383
OTH. ELEC. PROD. IND 45	.002865	.005208	.002418	.002795	.004117	.003566	.002837	.002971
CLAY, LIME, CEMENT 46	.002864	.003645	.004476	.004833	.031301	.001910	.002982	.002707
NON-METAL MIN. 47	.001974	.002886	.003203	.001622	.003157	.001835	.001733	.003156
PETR. PROD. IND. 48	.063202	.041937	.054133	.014003	.038226	.015594	.016328	.044125
PLASTIC, SYN. RESIN 49	.002332	.002188	.002477	.001981	.002705	.001635	.002183	.004697
PAINT & VARNISH MFG 50	.002445	.004741	.001420	.002485	.003844	.003321	.002702	.002676

TABLE 10. IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

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TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES -- AGGREGATION M (SEE CHAPTER 4)

COMMODITY (COLUMNS)	DAIRY PRODUCTS 9	FRUIT & VEG. PRODUCTS 10	FEED, FLOUR CEREALS 11	BAKERY PRODUCTS 12	SUGAR, CONFECT. 13	OTHER FOOD PRODUCTS 14	SOFT DRINKS 15	ALCOHOLIC BEVERAGES 16
INDUSTRY (ROWS)								
1 AGRICULTURE	.641457	.246142	.534186	.135703	.111207	.224548	.025717	.076340
2 FORESTRY	.009546	.010751	.010273	.012483	.010525	.011499	.006540	.011282
3 FISHING HUNTING	.004187	.009151	.014900	.010263	.006701	.137428	.004223	.009046
4 METAL MINES	.005578	.014275	.005612	.004500	.003571	.006386	.005779	.006413
5 NON-METAL MINES	.002583	.004851	.004444	.003236	.003004	.003787	.001947	.003850
6 COAL MINES	.004264	.008570	.003713	.003022	.004442	.004037	.003153	.004682
7 PETROLEUM NAT. GAS	.030780	.018905	.027539	.020965	.012787	.021325	.013295	.012806
8 MEAT, POULTRY PROC.	.009078	.047538	.040655	.046178	.004851	.027212	.005923	.007439
9 DAIRY FACTORIES	1.039002	.024574	.006264	.017369	.025258	.014711	.005390	.003916
10 FRUIT, VEG. CANNERS	.006431	.993014	.003495	.026902	.006835	.015613	.002455	.003359
11 FEED, FLR. CEREAL	.056999	.026517	1.098885	.150126	.015415	.051788	.004171	.016753
12 BISCUIT, BAKERIES	.001292	.002246	.001210	.987575	.007405	.002067	.002275	.001699
13 SUGAR, CONFECT. IND.	.012954	.037241	.013166	.050248	1.052034	.023698	.093790	.004821
14 OTHER FOOD IND.	.029764	.066535	.101278	.074009	.048844	1.015734	.030360	.065893
15 SOFT DRINK MFG	.000750	.002198	.000599	.001272	.000498	.000785	1.098354	.001115
16 ALCOHOLIC BEV. MFG	.001581	.003393	.006249	.002704	.001637	.004037	.008909	1.045449
17 TOBACCO PROD. IND.	.000038	.000103	.000088	.000105	.000031	.000065	.000032	.000038
18 RUBBER PROD. MFG.	.006342	.006117	.007042	.005371	.004195	.005479	.003665	.005308
19 LEATHER PROD. MFG.	.000380	.000507	.000520	.000458	.000364	.000508	.000548	.000574
20 SYN. TEXTILE MILLS	.002034	.002489	.004727	.002791	.002045	.002979	.001317	.002372
21 COTTON, YARN, CLOTH	.002899	.003157	.006848	.003160	.002644	.006131	.001882	.002885
22 KNITTING MILLS	.000181	.000164	.000558	.000197	.000181	.000246	.000091	.000122
23 CLOTHING IND.	.000707	.000699	.001186	.000694	.000562	.000756	.000426	.000545
24 OTHER TEXTILE IND.	.006848	.005872	.025511	.007884	.007816	.009891	.002797	.004140
25 SAWMILLS	.002742	.003188	.002954	.003042	.002430	.004532	.001715	.003602



TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	DAIRY PRODUCTS 9	FRUIT&VEG. PRODUCTS 10	FEED,FLOUR CEREALS 11	BAKERY PRODUCTS 12	SUGAR, CONFECT. 13	OTHER FOOD PRODUCTS 14	SOFT DRINKS 15	ALCOHOLIC BEVERAGES 16
FURNITURE, FIXTRS. 26	.000605	.000852	.000773	.000539	.000450	.000723	.000428	.000728
OTHER WOOD IND. 27	.004765	.003667	.003666	.002595	.002045	.005059	.001766	.008572
PULP&PAPER MILLS 28	.020185	.032270	.024204	.043768	.037790	.032294	.020400	.033308
OTHER PAPER IND. 29	.033913	.058325	.036831	.080159	.063106	.046038	.021046	.049779
PRINT. PUBLISHING 30	.018961	.031525	.025376	.028058	.021676	.031666	.053345	.056764
IRON, STEEL MILLS 31	.013189	.052539	.013739	.010065	.008045	.017415	.018114	.015761
SMELT. REFINING 32	.007234	.017290	.007419	.006081	.004964	.008249	.007480	.007621
OTH. PRIMARY METAL 33	.006155	.014123	.006298	.005494	.004372	.006990	.005998	.006328
STRUCTURAL METAL 34	.001893	.003268	.001941	.001444	.001160	.001940	.001472	.001607
METAL STAMPING 35	.017689	.141075	.014005	.010779	.008868	.025448	.042341	.030238
OTHER METAL MFG. 36	.014698	.027352	.014469	.011474	.009408	.014849	.011944	.013605
MACHINERY(NES) MFG 37	.018253	.016282	.017341	.012323	.010463	.015865	.008788	.012003
AIRCRAFT&PART MFG 38	.001491	.001714	.001901	.001681	.001150	.001662	.001436	.002420
MOTOR VEH. MFG. 39	.001328	.001555	.001473	.001271	.001027	.001269	.000928	.001150
VEHICLE PARTS MFG 40	.006412	.010764	.006922	.005718	.004730	.006352	.005408	.006390
OTH. TRANSP. EQUIP. 41	.001289	.001720	.002281	.001518	.001087	.003459	.001077	.001594
ELECT. APPLIANCE 42	.001251	.002577	.001211	.000959	.000792	.001272	.001090	.001155
ELEC. IND. EQUIP. 43	.002002	.002338	.001982	.001646	.001374	.001903	.001346	.001688
COM. EQUIP. & WIRE 44	.003461	.004137	.003710	.003062	.002473	.004325	.002510	.003073
OTH. ELEC. PROD. IND 45	.003164	.003346	.003222	.002784	.002338	.003030	.002243	.002832
CLAY, LIME, CEMENT 46	.002972	.004601	.003208	.002642	.002197	.003299	.002085	.003608
NON-METAL MIN. 47	.006768	.031914	.003756	.003696	.002777	.010949	.005030	.044690
PETR. PROD. IND. 48	.050217	.029526	.044629	.032792	.019408	.033868	.020957	.019858
PLASTIC, SYN. RESIN 49	.003831	.004746	.003314	.020287	.006602	.005363	.002728	.003915
PAINT&VARNISH MFG 50	.002933	.004248	.002800	.002919	.002232	.002894	.002353	.002824

TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

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TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	TOBACCO PRODUCTS 17	RUBBER PRODUCTS 18	LEATHER PRODUCTS 19	SYNTHETIC TEXTILES 20	COTTON YARN,CLOTH 21	KNITTED PRODUCTS 22	CLOTHING 23	OTHER TEXTILES 24
INDUSTRY(ROWS)								
1 AGRICULTURE	.453402	.010811	.070528	.013212	.009389	.013439	.026855	.026180
2 FORESTRY	.018022	.006172	.009254	.011000	.004741	.007694	.006631	.011051
3 FISHING HUNTING	.001211	.001039	.001790	.002919	.001533	.002561	.017245	.002342
4 METAL MINES	.005019	.010466	.006487	.006449	.003529	.004540	.004802	.007047
5 NON-METAL MINES	.002283	.007061	.003258	.005567	.002231	.002763	.002171	.003963
6 COAL MINES	.003128	.008101	.005257	.005299	.007287	.005258	.003536	.006143
7 PETROLEUM NAT.GAS	.021544	.015763	.011876	.018446	.008534	.011071	.009637	.013687
8 MEAT,POULTRY PROC.	.010673	.003641	.092388	.002861	.001870	.002850	.003249	.003414
9 DAIRY FACTORIES	.002814	.001928	.002708	.001794	.001238	.001795	.001795	.002176
10 FRUIT,VEG.CANNERS	.001277	.000848	.001728	.000902	.000585	.000813	.000784	.000959
11 FEED,FLR.CEREAL	.040281	.001932	.007728	.002459	.003021	.002225	.003431	.003584
12 BISCUIT,BAKERIES	.001387	.000934	.001333	.000779	.000560	.000865	.000848	.001007
13 SUGAR,CONFECT.,IND	.003279	.000531	.000870	.000759	.000450	.000537	.000525	.000659
14 OTHER FOOD IND.	.007846	.006376	.011097	.018962	.008985	.007947	.007090	.009977
15 SOFT DRINK MFG	.000811	.000553	.000736	.000425	.000300	.000490	.000478	.000569
16 ALCOHOLIC BEV.MFG	.002915	.002029	.002383	.001401	.000839	.001543	.001530	.001818
17 TOBACCO PROD.IND.	1.292550	.000030	.000195	.000028	.000023	.000030	.000038	.000037
18 RUBBER PROD.MFG.	.005646	.995665	.064818	.013999	.010950	.012800	.016903	.030590
19 LEATHER PROD.MFG.	.000607	.010846	1.221720	.000718	.000571	.004350	.008937	.004227
20 SYN.TEXTILE MILLS	.002221	.024818	.013987	1.201433	.158311	.316697	.158006	.135444
21 COTTON,YARN,CLOTH	.002930	.105389	.042407	.069303	1.181155	.170521	.203568	.171715
22 KNITTING MILLS	.000184	.001168	.009972	.013607	.004865	.973799	.061057	.019180
23 CLOTHING IND.	.000703	.004943	.008432	.014767	.012885	.081268	.983982	.023238
24 OTHER TEXTILE IND	.007221	.031167	.027549	.064762	.078565	.140137	.165791	.962907
25 SAWMILLS	.004550	.002170	.003760	.002526	.001536	.002188	.002436	.004007



TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	TOBACCO PRODUCTS 17	RUBBER PRODUCTS 18	LEATHER PRODUCTS 19	SYNTHETIC TEXTILES 20	COTTON YARN,CLOTH 21	KNITTED PRODUCTS 22	CLOTHING 23	OTHER TEXTILES 24
FURNITURE, FIXTRS. 26	.000770	.000749	.001077	.000978	.000797	.001556	.001886	.009430
OTHER WOOD IND. 27	.006954	.002834	.006308	.002623	.001859	.002576	.002977	.007513
PULP&PAPER MILLS 28	.057435	.019232	.026265	.041637	.015700	.026703	.020637	.034205
OTHER PAPER IND. 29	.093201	.023542	.027304	.020026	.017037	.028160	.022244	.045194
PRINT.&PUBLISHING 30	.040112	.025819	.030781	.016226	.011367	.020992	.021545	.025311
IRON, STEEL MILLS 31	.010313	.013820	.012283	.009686	.006185	.007506	.007601	.010855
SMELT, REFINING 32	.006810	.018691	.009539	.010550	.005589	.006984	.007056	.011380
OTH. PRIMARY METAL 33	.006233	.007336	.006751	.005590	.003677	.004763	.005156	.007919
STRUCTURAL METAL 34	.001716	.001934	.001838	.001646	.001086	.001374	.001454	.002104
METAL STAMPING 35	.009111	.008669	.007478	.006094	.003307	.004215	.004564	.006327
OTHER METAL MFG. 36	.012863	.022085	.020725	.011797	.008532	.010330	.010004	.016192
MACHINERY(INES) MFG 37	.015790	.012488	.015115	.013482	.009678	.011287	.010142	.013167
AIRCRAFT&PART MFG 38	.001734	.003162	.002068	.001747	.001006	.001455	.001460	.001652
MOTOR VEH. MFG. 39	.001266	.001185	.001606	.001182	.000938	.001129	.001242	.001400
VEHICLE PARTS MFG 40	.005575	.009159	.006536	.006097	.004399	.005188	.004694	.006244
OTH. TRANSP. EQUIP. 41	.001231	.001110	.001263	.001017	.000766	.000986	.001152	.001141
ELECT. APPLIANCE 42	.001103	.001420	.001513	.001065	.002367	.001086	.001172	.001368
ELEC. IND. EQUIP. 43	.001864	.001833	.002207	.001815	.001398	.001594	.001601	.001982
COM. EQUIP. & WIRE 44	.003305	.003806	.003921	.003172	.002317	.002815	.002984	.003490
OTH. ELEC. PROD. IND 45	.003109	.003664	.004018	.003734	.002459	.002969	.003054	.003650
CLAY, LIME, CEMENT 46	.003091	.002675	.002808	.002629	.001726	.002206	.002133	.004285
NON-METAL MIN. 47	.002508	.006273	.003303	.004722	.002003	.002849	.002852	.004779
PETR. PROD. IND. 48	.034705	.021621	.017995	.027534	.012984	.016756	.014737	.020742
PLASTIC, SYN. RESIN 49	.004191	.017335	.007085	.020252	.005382	.008627	.008268	.014012
PAINT&VARNISH MFG 50	.002670	.007276	.004579	.005281	.002608	.003241	.002716	.004150





TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES -- AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	SAWMILL PRODUCTS 25	FURNITURE, FIXTURES 26	OTHER WOOD PRODUCTS 27	PULP & PAPER 28	OTHER PAPER PRODUCTS 29	PRINTED MATTER 30	STEEL MILL PRODUCTS 31	SMELT.&REF. PRODUCTS 32
1 AGRICULTURE	.046101	.013911	.029745	.029000	.017940	.011462	.008100	.005292
2 FORESTRY	.417531	.038326	.217505	.237856	.092543	.049488	.004121	.002561
3 FISHING HUNTING	.000708	.000681	.000591	.000935	.000742	.000510	.000543	.000285
4 METAL MINES	.005182	.018660	.006452	.005391	.009215	.004305	.162441	.561389
5 NON-METAL MINES	.001626	.002927	.002437	.006894	.007473	.002496	.009657	.006925
6 COAL MINES	.001953	.006142	.002939	.014163	.007761	.004056	.061326	.014142
7 PETROLEUM NAT.GAS	.019537	.010944	.018496	.023233	.027367	.009999	.020116	.025594
8 MEAT,POULTRY PROC.	.002686	.002973	.002590	.002319	.002695	.002271	.002278	.001421
9 DAIRY FACTORIES	.001795	.001858	.001866	.001502	.002085	.001650	.001631	.001002
10 FRUIT,VEG.CANNERS	.000779	.000779	.000765	.000681	.000794	.000727	.000712	.000430
11 FEED,FLR.CEREAL	.007923	.002281	.005012	.005037	.003035	.001922	.001349	.000888
12 BISCUIT,BAKERIES	.000851	.000893	.000868	.000709	.001180	.000845	.000786	.000484
13 SUGAR,CONFECT.	.000508	.000459	.000469	.000465	.000656	.000485	.000395	.000237
14 OTHER FOOD IND.	.004048	.003927	.003419	.005961	.004456	.002772	.003269	.001627
15 SOFT DRINK MFG	.000429	.000498	.000453	.000367	.000488	.000501	.000399	.000254
16 ALCOHOLIC BEV.	.000780	.002144	.001100	.001493	.001628	.001728	.000672	.000528
17 TOBACCO PROD.	.000037	.000040	.000042	.000027	.000031	.000021	.000034	.000021
18 RUBBER PROD.	.007564	.026500	.007096	.005991	.006896	.005380	.006665	.004144
19 LEATHER PROD.	.000435	.005779	.000792	.000837	.000774	.000476	.000315	.000233
20 SYN.TEXTILE MILLS	.003175	.048919	.005194	.003140	.006255	.005606	.001279	.001096
21 COTTON,YARN,CLOTH	.003295	.032394	.003892	.003394	.007530	.003847	.001836	.001487
22 KNITTING MILLS	.000168	.001405	.000194	.000267	.000400	.000178	.000095	.000070
23 CLOTHING IND.	.000726	.002305	.000798	.000716	.001065	.000499	.000582	.000357
24 OTHER TEXTILE IND	.004943	.046581	.005224	.011361	.026016	.005153	.002448	.001857
25 SAWMILLS	.977012	.055277	.170194	.028503	.017291	.006604	.002478	.001672

TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY (COLUMNS)	SAMMILL PRODUCTS 25	FURNITURE, FIXTURES 26	OTHER WOOD PRODUCTS 27	PULP & PAPER 28	OTHER PAPER PRODUCTS 29	PRINTED MATTER 30	STEEL MILL PRODUCTS 31	SMTL.&REF. PRODUCTS 32
INDUSTRY (ROWS)								
FURNITURE, FIXTURES. 26	.029881	.899030	.026591	.001343	.001530	.000539	.000635	.000426
OTHER WOOD IND. 27	.084762	.055334	.997081	.006970	.007840	.002591	.003862	.001897
PULP&PAPER MILLS 28	.011849	.023395	.013050	1.042204	.387664	.212492	.007936	.005168
OTHER PAPER IND. 29	.010187	.021936	.013259	.023000	.956968	.030762	.005880	.004529
PRINT. PUBLISHING 30	.012139	.021998	.016221	.011832	.054588	1.081427	.010237	.008005
IRON, STEEL MILLS 31	.012286	.052651	.016191	.010595	.017527	.007148	1.005215	.040122
SMELT. REFINING 32	.006991	.028011	.008641	.007771	.013981	.006959	.133909	1.307851
OTH. PRIMARY METAL 33	.006596	.029578	.007583	.005882	.015614	.008467	.022989	.048644
STRUCTURAL METAL 34	.002790	.004570	.004397	.001927	.002328	.001199	.011300	.004980
METAL STAMPING 35	.005531	.054146	.013465	.004688	.010716	.003139	.009002	.007398
OTHER METAL MFG. 36	.020333	.072662	.026781	.021035	.017920	.010481	.057706	.017649
MACHINERY (NCS) MFG 37	.019482	.020449	.016282	.016323	.014245	.010279	.029787	.021189
AIRCRAFT & PART MFG 38	.001372	.002359	.001509	.001388	.001686	.001737	.001384	.002162
MOTOR VEH. MFG. 39	.001783	.001857	.001758	.001369	.001357	.000876	.001839	.001170
VEHICLE PARTS MFG 40	.008929	.007794	.007900	.007322	.006971	.004564	.009741	.006395
OTH. TRANSP. EQUIP. 41	.001497	.003347	.001544	.001309	.001402	.000919	.002785	.002076
ELECT. APPLIANCE 42	.001532	.007634	.002190	.001402	.001291	.000798	.001822	.001278
ELEC. IND. EQUIP. 43	.002683	.004798	.002442	.002268	.002162	.001373	.003249	.002115
COM. EQUIP. & WIRE 44	.004453	.013680	.004250	.003704	.003812	.002587	.010643	.004378
OTH. ELEC. PROD. IND 45	.004573	.033963	.003991	.003782	.003869	.002415	.006548	.003396
CLAY, LIME, CEMENT 46	.002901	.003831	.005054	.004095	.009013	.002072	.025002	.011109
NON-METAL MIN. 47	.003588	.012602	.012632	.002823	.004862	.001693	.004662	.002036
PETR. PROD. IND. 48	.031754	.016155	.029607	.028791	.040992	.013891	.025235	.018364
PLASTIC, SYN. RESIN 49	.003417	.008310	.016973	.003478	.017331	.003251	.002391	.002327
PAINT & VARNISH MFG 50	.005818	.014815	.008154	.003583	.004478	.002392	.003952	.002466







TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	OTHER PRIMARY METAL 33	STRUCTURAL METAL 34	METAL STAMPINGS 35	OTHER METAL PRODUCTS 36	MACHINERY (N.E.S.) 37	AIRCRAFT & PARTS 38	MOTOR VEHICLES 39	VEHICLE PARTS 40
INDUSTRY(ROWS)								
1 AGRICULTURE	.007909	.007853	.008729	.009232	.009792	.007985	.009817	.008691
2 FORESTRY	.004648	.004604	.005766	.006277	.007890	.004695	.005972	.005921
3 FISHING HUNTING	.000453	.000518	.000570	.000507	.000687	.000405	.000574	.000451
4 METAL MINES	.205023	.066593	.068489	.059846	.048270	.023996	.029016	.048622
5 NON-METAL MINES	.006092	.004816	.004616	.004502	.008551	.002305	.004177	.004540
6 COAL MINES	.017431	.023199	.020976	.014702	.011176	.004827	.010119	.015195
7 PETROLEUM NAT.GAS	.017964	.012386	.013060	.012039	.018621	.010604	.010779	.011915
8 MEAT, POULTRY PROC.	.002025	.002202	.002075	.002604	.002701	.002397	.002732	.002344
9 DAIRY FACTORIES	.001486	.001607	.001482	.001921	.002326	.001626	.002018	.001710
10 FRUIT, VEG. CANNERS	.000633	.000697	.000633	.000827	.000828	.000700	.000852	.000722
11 FEED, FLR. CEREAL	.001327	.001313	.003117	.001534	.001790	.001310	.001654	.001458
12 BISCUIT, BAKERIES	.000716	.000781	.000705	.000956	.000864	.000809	.000991	.000826
13 SUGAR, CONFECT. IND	.000353	.000387	.000380	.000450	.000515	.000379	.000469	.000394
14 OTHER FOOD IND.	.002674	.003072	.003273	.002915	.004286	.002216	.003199	.002534
15 SOFT DRINK MFG	.000376	.000413	.000372	.000536	.000562	.000451	.000562	.000436
16 ALCOHOLIC BEV. MFG	.000814	.000868	.000860	.001448	.001356	.001179	.001654	.000971
17 TOBACCO PROD. IND.	.000033	.000033	.000030	.000035	.000159	.000030	.000039	.000038
18 RUBBER PROD. MFG.	.007086	.006673	.006411	.008711	.014026	.020856	.046122	.016018
19 LEATHER PROD. MFG.	.000340	.000352	.000356	.000558	.000532	.000881	.001089	.000547
20 SYN. TEXTILE MILLS	.001421	.001432	.001780	.002893	.004934	.002721	.014839	.003489
21 COTTON, YARN, CLOTH	.001973	.001909	.002147	.002958	.003380	.004269	.012155	.004066
22 KNITTING MILLS	.000095	.000097	.000107	.000145	.000188	.000183	.000599	.000181
23 CLOTHING IND.	.000530	.000541	.000539	.000620	.000814	.000655	.001300	.000721
24 OTHER TEXTILE IND	.002496	.002581	.003816	.003981	.004403	.004554	.021239	.005419
25 SAWMILLS	.002761	.002652	.003763	.004500	.005947	.002830	.003511	.003079

TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	OTHER METAL 33	STRUCTURAL METAL 34	METAL STAMPINGS 35	OTHER METAL PRODUCTS 36	MACHINERY (N.E.-S.) 37	AIRCRAFT & PARTS 38	MOTOR VEHICLES 39	VEHICLE PARTS 40
FURNITURE, FIXTRS. 26	.001283	.000931	.002299	.004343	.002672	.001067	.002406	.001228
OTHER WOOD IND. 27	.004300	.003571	.007105	.006490	.004691	.004470	.003660	.003893
PULP&PAPER MILLS 28	.010178	.010976	.011691	.012728	.019066	.010665	.014734	.015914
OTHER PAPER IND. 29	.007270	.011629	.014090	.011864	.008731	.008061	.016002	.022660
PRINT.-PUBLISHING 30	.012490	.014093	.013661	.021076	.022308	.019013	.022840	.014900
IRON, STEEL MILLS 31	.199918	.358342	.315113	.202519	.122848	.046425	.088630	.160466
SMELT.-REFINING 32	.430234	.066798	.081875	.088117	.061752	.040918	.043435	.072431
OTH.PRIMARY METAL 33	.933527	.031796	.066237	.075465	.059017	.047849	.056037	.097422
STRUCTURAL METAL 34	.010990	.816839	.013433	.035089	.024201	.010799	.006058	.007836
METAL STAMPING 35	.013351	.063888	.958429	.079381	.041842	.022182	.027826	.038981
OTHER METAL MFG. 36	.097987	.185868	.116758	.843312	.163598	.065332	.081665	.121192
MACHINERY(NES)MFG37	.029640	.054867	.024887	.073224	.836914	.043193	.026858	.034662
AIRCRAFT&PART MFG38	.002044	.001793	.001754	.013322	.005351	1.117156	.002593	.002256
MOTOR VEH. MFG. 39	.001901	.004332	.002398	.007450	.009941	.002295	1.024294	.087523
VEHICLE PARTS MFG40	.028097	.022730	.039356	.027676	.026227	.021704	.432843	1.057609
OTH.TRANSP.EQUIP.41	.005427	.006222	.002914	.010686	.015703	.003169	.011501	.003810
ELECT.APPLIANCE 42	.003532	.006777	.011943	.034040	.020426	.005289	.007213	.007575
ELEC.IND. EQUIP. 43	.003449	.009064	.005406	.019919	.026373	.005563	.008886	.011802
COM.EQUIP.&WIRE 44	.016705	.010995	.008546	.034393	.026406	.037368	.015594	.014114
OTH.ELEC.PROD.IND45	.005352	.009195	.004722	.014904	.009182	.007179	.013752	.008220
CLAY,LIME,CEMENT 46	.010306	.013904	.009687	.008763	.007570	.003822	.006522	.009992
NON-METAL MIN. 47	.003634	.004359	.007678	.008902	.004909	.007147	.023864	.008355
PETR. PROD. IND. 48	.019786	.016366	.017090	.015776	.013972	.015496	.015171	.015969
PLASTIC, SYN.RESIN49	.003323	.003154	.007717	.006478	.004531	.009515	.006878	.007535
PAINT&VARNISH MFG50	.003863	.006081	.013244	.006315	.005574	.004170	.013875	.005688





TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	OTHER TRANS- PORT EQUIP. 41	ELECTRICAL APPLIANCES 42	ELECTRIC IND.EQUIP. 43	COM.EQUIP. INCL. WIRE 44	OTHER ELEC. PRODUCTS 45	CLAY,LIME, CEMENT 46	ALL OTHER NON-METALLIC 47	PETROLEUM PRODUCTS 48
INDUSTRY(ROWS)								
1 AGRICULTURE	.007500	.010325	.008261	.007766	.009875	.011017	.009665	.009898
2 FORESTRY	.007939	.007481	.005872	.005305	.006999	.008627	.008435	.003762
3 FISHING HUNTING	.000367	.000542	.000416	.000424	.000511	.000688	.000600	.000427
4 METAL MINES	.040940	.040816	.036458	.050450	.037694	.013534	.033261	.017344
5 NON-METAL MINES	.003512	.004410	.003509	.003185	.004291	.072467	.052981	.004352
6 COAL MINES	.010946	.011518	.008700	.005778	.006568	.021415	.005461	.003652
7 PETROLEUM NAT.GAS	.010839	.011868	.009477	.009438	.010471	.023718	.020064	.596044
8 MEAT,POULTRY PROC.	.001810	.002952	.002265	.001987	.002797	.003022	.002714	.001762
9 DAIRY FACTORIES	.001311	.002185	.001648	.001413	.002038	.002163	.001862	.001211
10 FRUIT,VEG.CANNERS	.000542	.000924	.000708	.000603	.000879	.000944	.000810	.000521
11 FEED,FLR.CEREAL	.001218	.001752	.001392	.001256	.001618	.001799	.001666	.001555
12 BISCUIT,BAKERIES	.000624	.001084	.000822	.000692	.001035	.001065	.000920	.000590
13 SUGAR,CONFECT.,IND	.000304	.000509	.000386	.000338	.000480	.000519	.000457	.000309
14 OTHER FOOD IND.	.002106	.003145	.002370	.002471	.002982	.003893	.003576	.002529
15 SOFT DRINK MFG	.000340	.000636	.000462	.000383	.000610	.000562	.000495	.000316
16 ALCOHOLIC BEV.MFG	.000878	.001983	.001281	.001069	.001987	.001177	.001210	.000802
17 TOBACCO PROD.IND.	.000033	.000044	.000030	.000026	.000030	.000038	.000032	.000022
18 RUBBER PROD.MFG.	.021784	.016794	.012831	.018009	.028314	.008690	.022031	.004956
19 LEATHER PROD.MFG.	.001352	.000796	.000665	.000554	.000888	.000466	.000822	.000293
20 SYN.TEXTILE MILLS	.002744	.002954	.002856	.004940	.004721	.001901	.019388	.001124
21 COTTON,YARN,CLOTH	.004949	.004301	.004819	.006208	.006260	.003397	.014836	.001483
22 KNITTING MILLS	.000193	.000163	.000166	.000178	.000188	.000137	.000242	.000081
23 CLOTHING IND.	.000630	.000682	.000585	.000603	.000696	.000753	.000969	.000400
24 OTHER TEXTILE IND	.006425	.004469	.004194	.004798	.005236	.003934	.005534	.002115
25 SAWMILLS	.010264	.004185	.003537	.002514	.003970	.002803	.003653	.002369



TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY (COLUMNS)	OTHER TRANS- PORT EQUIP. 41	ELECTRICAL APPLIANCES 42	ELECTRIC IND. EQUIP. 43	COM. EQUIP. INCL. WIRE 44	OTHER ELEC. PRODUCTS 45	CLAY, LIME, CEMENT 46	ALL OTHER NON-METALLIC 47	PETROLEUM PRODUCTS 48
INDUSTRY (ROWS)								
FURNITURE, FIXTURES. 26	.003821	.008659	.005052	.001820	.023351	.000711	.002195	.000538
OTHER WOOD IND. 27	.007491	.005647	.004255	.003446	.004302	.002730	.005498	.002947
PULP & PAPER MILLS 28	.009389	.018981	.014816	.015003	.018071	.026932	.024258	.007301
OTHER PAPER IND. 29	.006657	.024597	.010690	.010503	.017810	.020261	.035503	.007873
PRINT. PUBLISHING 30	.014096	.027458	.020361	.017322	.026999	.017779	.017046	.012938
IRON, STEEL MILLS 31	.131510	.142816	.088216	.052910	.064970	.021533	.016707	.016483
SMELT. REFINING 32	.061167	.056980	.060658	.102290	.069135	.015936	.023166	.011632
OTH. PRIMARY METAL 33	.050046	.057941	.058082	.135242	.062938	.008544	.009984	.008414
STRUCTURAL METAL 34	.010054	.013787	.004888	.004092	.004239	.002700	.002339	.002342
METAL STAMPING 35	.016907	.069406	.045962	.021646	.020108	.006176	.013563	.011145
OTHER METAL MFG. 36	.111077	.138870	.064380	.036482	.042937	.028374	.029016	.014133
MACHINERY (N.E.S.) MFG 37	.066568	.094040	.034672	.017395	.016853	.021892	.017938	.019678
AIRCRAFT & PART MFG 38	.003906	.003601	.002275	.007963	.003008	.001779	.003791	.002020
MOTOR VEH. MFG. 39	.002295	.003253	.005322	.001387	.006402	.001920	.001564	.001119
VEHICLE PARTS MFG 40	.015004	.017565	.032614	.009721	.050094	.010322	.011168	.006324
OTH. TRANSP. EQUIP. 41	.986230	.003654	.002332	.001711	.001867	.001898	.001339	.001880
ELECT. APPLIANCE 42	.004713	.983937	.025520	.005198	.011106	.001931	.001517	.001219
ELEC. IND. EQUIP. 43	.008733	.057167	.899280	.037069	.069414	.005074	.002685	.002085
COM. EQUIP. & WIRE 44	.027101	.025296	.108620	1.052702	.218077	.005424	.004580	.003738
OTH. ELEC. PROD. IND 45	.010883	.014140	.059757	.039444	.916000	.006365	.006016	.003388
CLAY, LIME, CEMENT 46	.006543	.006742	.013379	.005037	.005861	1.102743	.034754	.004185
NON-METAL MIN. 47	.011988	.006794	.007499	.010897	.025431	.016742	1.033692	.002306
PETR. PROD. IND. 48	.014925	.015611	.012967	.012326	.014430	.032385	.077513	1.006954
PLASTIC, SYN. RESIN 49	.005518	.007133	.009743	.023660	.021637	.003247	.011857	.004131
PAINT & VARNISH MFG 50	.007225	.011104	.006376	.006524	.007784	.006231	.005283	.003244

TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

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TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	INDUSTRY(ROWS)	PLASTIC, SYN. RESINS 49	PAINT & VARNISH 50	PHARM. SOAP, TOILET 51	OTH. CHEMICAL PRODUCTS 52	MISC. MFG. PRODUCTS 53	CONSTRUCTION 54	WH. & RETAIL 55	TRANSPORT AND STORAGE 56
AGRICULTURE	1	.014808	.020731	.054334	.013325	.018773	.011802	.045411	.007572
FORESTRY	2	.015148	.008420	.012874	.007626	.017226	.025015	.008066	.006777
FISHING HUNTING	3	.002730	.005425	.011125	.002405	.000931	.000462	.000858	.000299
METAL MINES	4	.012869	.014769	.009458	.024460	.036555	.023457	.004671	.004969
NON-METAL MINES	5	.011716	.014630	.007005	.027857	.004932	.015873	.001421	.001952
COAL MINES	6	.009342	.006694	.005432	.015348	.006111	.006312	.001702	.002514
PETROLEUM NAT. GAS	7	.038457	.036640	.016332	.050345	.014121	.018738	.017249	.029049
MEAT, POULTRY PROC.	8	.004079	.005358	.039762	.004788	.009573	.001817	.005250	.001704
DAIRY FACTORIES	9	.002665	.004590	.005755	.002005	.002307	.001399	.005712	.001280
FRUIT, VEG. CANNERS	10	.001073	.001718	.003176	.000845	.001006	.000541	.001637	.000537
FEED, FLR., CEREAL	11	.002838	.004070	.010832	.002825	.002657	.001858	.007397	.001392
BISCUIT, BAKERIES	12	.000983	.001465	.002556	.000754	.001131	.000632	.002122	.000631
SUGAR, CONFECTION	13	.000891	.001518	.005001	.000777	.000653	.000320	.000997	.000289
OTHER FOOD IND.	14	.019270	.039030	.080728	.016969	.005654	.002397	.005192	.001525
SOFT DRINK MFG	15	.000561	.000896	.001597	.000470	.000659	.000328	.000840	.000329
ALCOHOLIC BEV. MFG	16	.003359	.004740	.009784	.003237	.002214	.000915	.002041	.000731
TOBACCO PROD. IND.	17	.000033	.000036	.000061	.000030	.000035	.000044	.000369	.000025
RUBBER PROD. MFG.	18	.026308	.020217	.006163	.010605	.021670	.009286	.007271	.009880
LEATHER PROD. MFG.	19	.001111	.000750	.001054	.000462	.007343	.000527	.000929	.000409
SYN. TEXTILE MILLS	20	.031860	.004655	.004914	.003384	.013928	.003831	.004792	.001381
COTTON, YARN, CLOTH	21	.006190	.004397	.010742	.003379	.014029	.003819	.004661	.002794
KNITTING MILLS	22	.000381	.000155	.000256	.000141	.000976	.000244	.000402	.000104
CLOTHING IND.	23	.001038	.000635	.000923	.000566	.003103	.000757	.003486	.000482
OTHER TEXTILE IND	24	.008190	.004670	.012573	.005088	.021671	.008998	.006444	.003151
SAWMILLS	25	.003747	.002514	.003338	.002990	.012596	.031146	.003641	.002462



TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	PLASTIC, SYN. RESINS 49	PAINT & VARNISH 50	PHARM. SOAP, TOILET 51	OTH. CHEMICAL PRODUCTS 52	MISC. MFG. PRODUCTS 53	CONSTRUCTION 54	WH. & RETAIL 55	TRANSPORT AND STORAGE 56
INDUSTRY(ROWS)								
FURNITURE, F.IXTRS.26	.000691	.000637	.000878	.000706	.007681	.004457	.001049	.000655
OTHER WOOD IND. 27	.004887	.003426	.003618	.006221	.016738	.039231	.003487	.002916
PULP&PAPER MILLS 28	.055849	.026499	.042283	.021449	.040688	.015268	.016984	.006390
OTHER PAPER IND. 29	.040452	.029756	.057601	.026655	.042981	.015031	.016292	.005072
PRINT.PUBLISHING 30	.021711	.039740	.072066	.016679	.034880	.013527	.033857	.015065
IRON, STEEL MILLS 31	.017197	.026540	.017130	.023079	.041640	.063669	.009967	.011985
SMELT. REFINING 32	.022234	.024065	.013553	.046405	.048629	.036059	.006403	.006643
OTH. PRIMARY METAL 33	.015719	.010378	.008558	.013071	.036379	.050324	.006327	.007228
STRUCTURAL METAL 34	.002015	.002172	.002102	.001951	.004533	.027217	.001949	.002454
METAL STAMPING 35	.013539	.050887	.019144	.016916	.034215	.024387	.006212	.004068
OTHER METAL MFG. 36	.016637	.020041	.027420	.014312	.036118	.083263	.013987	.014254
MACHINERY(NES)MFG37	.014940	.012609	.014763	.013561	.021837	.030837	.015204	.012123
AIRCRAFT&PART MFG38	.002736	.002973	.003070	.007280	.009359	.002905	.002352	.004828
MOTOR VEH. MFG. 39	.001359	.001242	.001284	.001204	.002051	.002330	.009391	.001772
VEHICLE PARTS MFG40	.007148	.007096	.006150	.007175	.013783	.010396	.008439	.013606
OTH. TRANSP. EQUIP. 41	.001359	.001532	.001830	.001301	.002434	.002627	.001666	.009347
ELECT. APPLIANCE 42	.001293	.001552	.002204	.001224	.005619	.005798	.001406	.001067
ELEC. IND. EQUIP. 43	.002178	.001889	.002073	.002102	.008395	.011127	.002940	.002021
COM. EQUIP. & WIRE 44	.004042	.003731	.003867	.004745	.011447	.028446	.009530	.004305
OTH. ELEC. PROD. IND45	.004869	.004296	.003834	.009113	.022597	.017760	.004486	.003969
CLAY, LIME, CEMENT 46	.005629	.009918	.004055	.006093	.006592	.064307	.003047	.004398
NON-METAL MIN. 47	.004274	.021271	.032799	.006505	.018098	.017192	.003150	.002657
PETR. PROD. IND. 48	.057166	.056684	.024312	.070196	.020080	.028876	.027644	.047887
PLASTIC, SYN. RESIN 49	.814933	.075329	.008808	.028766	.062940	.004754	.003618	.001608
PAINT&VARNISH MFG50	.021002	.955533	.003259	.008057	.007515	.008796	.002558	.002397





TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	COMMUNI- CATIONS 57	UTILITIES 58	FINANCE,INS. REAL ESTATE 59	BUSINESS SERVICES 60	ACCOMMODA- TION, MEALS 61	OTHER SERVICES 62	OFFICE SUPPLIES 63	ADVTG. AND TRAVEL 64
1 AGRICULTURE	.003286	.003922	.038148	.005500	.134015	.010988	.015438	.053725
2 FORESTRY	.002610	.004243	.003869	.002755	.023195	.005137	.042484	.024086
3 FISHING HUNTING	.000230	.000135	.000281	.000354	.005249	.003503	.000604	.002369
4 METAL MINES	.002342	.008284	.005635	.002638	.005544	.006383	.007941	.005091
5 NON-METAL MINES	.000902	.001293	.001811	.000670	.002378	.001795	.003388	.002151
6 COAL MINES	.000700	.009930	.001035	.000807	.001845	.001754	.004485	.002486
7 PETROLEUM NAT.GAS	.004723	.009844	.008603	.004813	.014088	.010437	.013600	.012370
8 MEAT,POULTRY PROC.	.000742	.000770	.001422	.001684	.069225	.002731	.003303	.024993
9 DAIRY FACTORIES	.000551	.000569	.001071	.001254	.056015	.001837	.002054	.019877
10 FRUIT,VEG.CANNERS	.000229	.000244	.000432	.000552	.025417	.000639	.000806	.009018
11 FEED,FLR.CEREAL	.000516	.000570	.003717	.000862	.023330	.001998	.002537	.009388
12 BISCUIT,BAKERIES	.000270	.000283	.000568	.000663	.031642	.000711	.000979	.011130
13 SUGAR,CONFECT.IND	.000127	.000135	.000328	.000293	.011485	.000431	.000539	.004471
14 OTHER FOOD IND.	.000693	.000705	.001518	.001342	.030871	.003992	.003489	.013679
15 SOFT DRINK MFG	.000154	.000181	.000290	.000413	.012984	.000403	.000513	.007466
16 ALCOHOLIC BEV.MFG	.000447	.000368	.000849	.001445	.001354	.001211	.001680	.029580
17 TOBACCO PROD.IND.	.000009	.000011	.000019	.000012	.000219	.000022	.000056	.000096
18 RUBBER PROD.MFG.	.002227	.002051	.002964	.002825	.004260	.005581	.037446	.005282
19 LEATHER PROD.MFG.	.000192	.000125	.000272	.000346	.000412	.001360	.004429	.003118
20 SYN.TEXTILE MILLS	.000779	.000516	.000863	.001038	.003217	.003170	.006359	.003526
21 COTTON,YARN,CLOTH	.001144	.000657	.001107	.001181	.010785	.006783	.008076	.005881
22 KNITTING MILLS	.000070	.000038	.000119	.000052	.000280	.000208	.000327	.000221
23 CLOTHING IND.	.000381	.000187	.000380	.000228	.001637	.000626	.001176	.000981
24 OTHER TEXTILE IND	.002113	.001093	.001855	.001436	.007035	.006861	.009449	.005307
25 SAWMILLS	.001597	.004224	.003153	.000911	.002299	.003044	.007426	.003596

TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	COMMUNI- CATIONS 57	UTILITIES 58	FINANCE,INS. REAL ESTATE 59	BUSINESS SERVICES 60	ACCOMMODA- TION, MEALS 61	OTHER SERVICES 62	OFFICE SUPPLIES 63	ADVTG. AND TRAVEL 64
INDUSTRY(ROWS)								
FURNITURE, FIXTRS. 26	.000380	.000421	.000633	.000294	.000882	.001912	.001259	.000797
OTHER WOOD IND. 27	.002037	.002747	.003810	.001096	.002451	.007832	.004562	.002909
PULP&PAPER MILLS 28	.005498	.006866	.006420	.008312	.017082	.010284	.175793	.071209
OTHER PAPER IND. 29	.003107	.002049	.004476	.004460	.017213	.007795	.134943	.018579
PRINT.PUBLISHING 30	.019035	.006103	.017884	.027199	.016533	.024101	.638403	.326711
IRON, STEEL MILLS 31	.004821	.010805	.007820	.005518	.008296	.010745	.012969	.008507
SMELT. REFINING 32	.003551	.014598	.005213	.003820	.005399	.007350	.011836	.006472
OTH. PRIMARY METAL 33	.004231	.004248	.005687	.003762	.004229	.006059	.011239	.006295
STRUCTURAL METAL 34	.001439	.001918	.002643	.001083	.001436	.004594	.001943	.001544
METAL STAMPING 35	.001916	.002360	.003291	.002136	.008486	.004128	.007437	.006253
OTHER METAL MFG. 36	.006478	.008271	.011069	.007055	.010330	.019679	.020655	.010793
MACHINERY(NES)MFG37	.005094	.007429	.009033	.007556	.010603	.014447	.012223	.010159
AIRCRAFT&PART MFG38	.000898	.000648	.000887	.036445	.001269	.002752	.002542	.004825
MOTOR VEH. MFG. 39	.000460	.000512	.000637	.000502	.001107	.001681	.001884	.001230
VEHICLE PARTS MFG40	.002357	.002543	.003050	.002580	.004748	.005168	.006286	.005320
OTH. TRANSP. EQUIP. 41	.000933	.000543	.000636	.011379	.001153	.002516	.001447	.002700
ELECT. APPLIANCE 42	.000564	.000646	.000877	.000585	.000916	.002750	.001546	.000966
ELEC. IND. EQUIP. 43	.001226	.001506	.001600	.000937	.001521	.002077	.002264	.001588
COM. EQUIP. & WIRE 44	.011096	.002559	.003472	.003760	.002891	.004487	.004295	.003894
OTH. ELEC. PROD. IND 45	.002521	.001936	.002586	.001476	.002484	.003819	.004408	.002898
CLAY, LIMF, CEMENT 46	.002803	.004198	.005730	.001044	.003530	.004400	.003379	.002910
NON-METAL MIN. 47	.001233	.001471	.002090	.001203	.004190	.003149	.003611	.004738
PETR. PROD. IND. 48	.007505	.014620	.010898	.007508	.022473	.015963	.019826	.019176
PLASTIC, SYN. RESIN 49	.000907	.000713	.001218	.001125	.002718	.002955	.009836	.003560
PAINT&VARNISH MFG50	.001017	.001406	.003484	.001139	.002164	.002543	.003143	.002162



TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	COMMUNI- CATIONS 57	UTILITIES 58	FINANCE,INS. REAL ESTATE 59	BUSINESS SERVICES 60	ACCOMMODA- TION, MEALS 61	OTHER SERVICES 62	OFFICE SUPPLIES 63	ADVTG. AND TRAVEL 64
PHARM.SOAP,TOILET51	.001483	.001192	.001633	.003852	.005564	.020916	.003646	.004274
OTH.CHEMICALS IND52	.004640	.005585	.007663	.010064	.015819	.019384	.052102	.021758
MISC. MFG. IND. 53	.003864	.002817	.004679	.006667	.007359	.020905	.078014	.022679
CONSTRUCTION 54	.040139	.060114	.084751	.009358	.022035	.034296	.017521	.023156
TRADE.WH.&RETAIL 55	.023951	.023131	.032712	.022594	.125378	.068626	.139683	.096448
TRANSPORT,STORAGE56	.072544	.018459	.018794	.022010	.055877	.044592	.081280	.142136
COMMUNICATIONS 57	1.025287	.008645	.015012	.068310	.017061	.028316	.028017	.100017
UTILITIES 58	.006646	1.211341	.008297	.006669	.018842	.018442	.024862	.017810
FIN.INSUR.RL.&FST.59	.025268	.038724	1.010081	.041902	.060880	.114774	.043523	.048174
BUSINESS SERVICES60	.008290	.009011	.012016	.943667	.009602	.013631	.011013	.088308
HOTEL,RESTAURANT 61	.004752	.003769	.008279	.015306	.927697	.011708	.015687	.320503
OTHER SERVICES 62	.037947	.008318	.018263	.049594	.033461	.924565	.025019	.053767
OFFICE SUPPLIES 63	.008703	.002844	.013963	.016230	.007027	.014905	1.010372	.009473
ADVTG. AND TRAVEL64	.014660	.011738	.022876	.049278	.033399	.036997	.048756	1.040918
OPERATING SUPPL. 65	.018886	.028241	.032705	.026271	.051377	.056717	.055611	.047342
NON-COMP.IMPORTS 66	.000519	.000406	.000707	.000730	.013842	.002315	.004549	.005951
BAL.OF PAYMNT ADJ67	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 68	.007902	.005823	.006716	.006607	.012127	.013968	.064826	.040113
SUBSIDIES 69	-.063096	-.005142	-.004473	-.005233	-.005860	-.004456	-.006698	-.012076
INDIR.TAX&GOV.SER70	.034433	.032712	.179015	.021437	.047584	.040706	.029079	.035746
WAGES & SALARIES 71	.555613	.309728	.271984	.518707	.525867	.449923	.587196	.551568
NET-INC.UNINCORP.72	.025284	.016953	.137143	.335257	.183327	.283110	.048913	.122067
SURPLUS 73	.439343	.639520	.408907	.122497	.223112	.214434	.272134	.256632
SUB TOTAL(66-73) 74	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000



TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMM. 65, FINAL DEMAND INDUSTRY(ROWS)	OPERATING SUPPLIES(D) 65	NET-EXPORTS 66	RE-EXPORTS 67	IMPORTS 68	INVENTORY CHANGE 69	OTHER FINAL DEMAND 70
1 AGRICULTURE	.045175	803.1	1.0	-252.0	-400.6	486.2
2 FORESTRY	.009090	42.9	1.0	-14.7	-12.0	38.3
3 FISHING HUNTING	.002340	23.9	.9	-18.0	.5	5.8
4 METAL MINES	.022746	519.0	.0	-126.5	19.4	.0
5 NON-METAL MINES	.005255	153.0	4.3	-56.4	1.3	12.1
6 COAL MINES	.006477	8.1	.0	-119.4	2.4	47.0
7 PETROLEUM NAT.GAS	.018865	208.5	.0	-368.4	5.5	154.7
8 MEAT, POULTRY PROC.	.016744	69.7	1.9	-76.1	19.2	1138.1
9 DAIRY FACTORIES	.011451	24.2	.0	-12.1	9.0	706.1
10 FRUIT, VEG. CANNERS	.005198	8.8	.6	-110.8	16.7	335.9
11 FEED, FLR., CEREAL	.007435	68.9	.0	-7.7	2.6	90.2
12 BISCUIT, BAKERIES	.005721	3.6	.0	-11.8	5.7	396.9
13 SUGAR, CONFECTION	.002615	1.8	.2	-33.8	3.2	198.0
14 OTHER FOOD IND.	.012981	164.0	2.0	-139.6	9.2	313.5
15 SOFT DRINK MFG	.002762	.1	.0	-4.7	1.4	133.8
16 ALCOHOLIC BEV. MFG	.002002	88.6	.2	-61.0	21.6	322.5
17 TOBACCO PROD. IND.	.000181	28.1	.0	-9.2	4.7	231.8
18 RUBBER PROD. MFG.	.052259	7.2	.6	-59.8	1.4	107.5
19 LEATHER PROD. MFG.	.001847	15.3	.5	-44.6	2.6	243.4
20 SYN. TEXTILE MILLS	.006905	20.1	.7	-66.8	1.6	14.4
21 COTTON, YARN, CLOTH	.011191	10.9	.8	-144.0	3.3	42.3
22 KNITTING MILLS	.000590	1.7	.4	-39.7	3.6	202.3
23 CLOTHING IND.	.004112	8.0	.6	-61.7	14.8	816.4
24 OTHER TEXTILE IND	.014517	11.8	2.0	-196.4	10.3	196.0
25 SAWMILLS	.004528	354.9	.1	-39.2	13.7	6.7

TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMM.65,FINAL DEMAND INDUSTRY(ROWS)	OPERATING SUPPLIES(D) 65	NET-EXPORTS 66	RE-EXPORTS 67	IMPORTS 68	INVENTORY CHANGE 69	OTHER FINAL DEMAND 70
FURNITURE, FIXTRS. 26	.002499	2.3	.2	-35.2	7.0	358.3
OTHER WOOD IND. 27	.004733	39.7	.6	-32.5	9.7	11.3
PULP&PAPER MILLS 28	.023658	1113.9	.3	-65.0	2.4	31.5
OTHER PAPER IND. 29	.019014	4.3	.5	-43.2	6.8	71.5
PRINT.PUBLISHING 30	.027097	16.1	2.4	-144.7	6.4	298.7
IRON, STEEL MILLS 31	.056552	112.9	1.0	-122.2	4.3	.0
SMELT. REFINING 32	.032839	823.1	11.0	-77.4	-1.5	-68.7
OTH. PRIMARY METAL 33	.031530	60.2	.6	-101.0	1.7	1.8
STRUCTURAL METAL 34	.008474	4.4	.3	-23.9	.8	1.4
METAL STAMPING 35	.023412	3.3	1.0	-61.9	3.7	39.1
OTHER METAL MFG. 36	.109463	29.9	4.9	-255.8	1.6	126.9
MACHINERY(NES) MFG 37	.141294	154.0	31.4	-947.7	9.0	975.5
AIRCRAFT&PART MFG 38	.004107	99.2	33.0	-211.9	10.6	329.1
MOTOR VEH. MFG. 39	.011155	27.0	2.1	-230.9	18.5	1091.4
VEHICLE PARTS MFG 40	.070818	15.6	4.5	-367.8	2.1	81.6
OTH. TRANSP. EQUIP. 41	.004955	17.8	.7	-41.9	-1.2	178.2
ELECT. APPLIANCE 42	.009067	6.4	.5	-105.0	4.2	293.4
ELEC. IND. EQUIP. 43	.019187	15.0	2.6	-89.3	.8	154.2
COM. EQUIP. & WIRE 44	.026302	40.9	3.0	-124.6	15.2	170.9
OTH. ELEC. PROD. IND 45	.033160	5.8	1.2	-91.7	2.4	178.8
CLAY, LIME, CEMENT 46	.005716	10.8	.3	-69.8	7.2	28.0
NON-METAL MIN. 47	.014685	29.5	.6	-84.5	5.1	34.6
PETR. PROD. IND. 48	.026680	10.2	.3	-137.8	9.7	539.9
PLASTIC, SYN. RESIN 49	.010900	30.7	.2	-65.5	2.1	1.0
PAINT & VARNISH MFG 50	.032450	1.3	.1	-7.5	1.2	15.1

TABLE 10 IMPACT TABLE WITHOUT IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMM. 65, FINAL DEMAND INDUSTRY (ROWS)	OPERATING SUPPLIES (DI) 65	NET-EXPORTS 66	RE-EXPORTS 67	IMPORTS 68	INVENTORY CHANGE 69	OTHER FINAL DEMAND 70
PHARM. SOAP, TOILETS 1	.030821	12.1	.6	-58.1	7.9	319.1
OTH. CHEMICALS IND 52	.075189	171.1	2.7	-264.3	6.1	79.1
MISC. MFG. IND. 53	.047914	40.4	10.5	-361.0	13.3	533.0
CONSTRUCTION 54	.021065	.0	.0	.0	.0	5911.9
TRADE, WH. & RETAIL 55	.368120	111.8	.0	.0	24.8	4857.1
TRANSPORT, STORAGE 56	.076581	558.2	.0	-80.9	-4.7	1159.2
COMMUNICATIONS 57	.032643	24.9	.0	-17.6	.0	443.2
UTILITIES 58	.026608	18.1	.0	-15.9	-2.3	476.4
FIN. INSUR. RL. EST. 59	.056420	19.7	.0	-83.4	.0	5097.2
BUSINESS SERVICES 60	.013677	8.0	.0	-72.1	.0	197.2
HOTEL, RESTAURANT 61	.017988	.0	.0	.0	.0	1242.2
OTHER SERVICES 62	.077208	6.5	.0	-120.3	.0	1378.4
OFFICE SUPPLIES 63	.012031	.0	.0	.0	.0	.0
ADVTG. AND TRAVEL 64	.053543	.0	.0	.0	.0	.0
OPERATING SUPPL. 65	1.058441	.0	.0	.0	.0	.0
NON-COMP. IMPORTS 66	.007927					
BAL. OF PAYMNT ADJ 67	.000000					
COMMODITY TAXES 68	.041579					
SUBSIDIES 69	-.010217					
INDIR. TAX & GOV. SERV 70	.034179					
WAGES & SALARIES 71	.557013					
NET-INC. UNINCORP. 72	.087745					
SURPLUS 73	.281774					
SUB TOTAL (66-73) 74	1.000000					

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES -- AGGREGATION M (SEE CHAPTER 4)

COMMODITY (COLUMNS) INDUSTRY (ROWS)	1	2	3	4	5	6	7	8
	AGRICULTURE PRODUCTS	FORESTRY PRODUCTS	FISH & FUR	METAL ORES & CONC.	NON-METAL MINERALS	COAL	OIL AND NATURAL GAS	MEAT PRODUCTS
1 AGRICULTURE	1.090546	.097554	.003702	.003748	.006887	.005753	.010261	.525319
2 FORESTRY	.006850	1.034556	.006012	.001252	.003755	.004271	.001937	.006814
3 FISHING HUNTING	.001279	.000533	1.012721	.000156	.000591	.000227	.000187	.005445
4 METAL MINES	.002159	.002644	.002379	.943450	.002577	.002164	.018939	.002093
5 NON-METAL MINES	.001171	.000885	.002054	.002989	.973035	.000644	.001639	.001396
6 COAL MINES	.000836	.000442	.000313	.001243	.002051	1.001833	.000328	.000842
7 PETROLEUM NAT. GAS	.020082	.013509	.017381	.016744	.018975	.004976	.998555	.013041
8 MEAT, POULTRY PROC.	.004946	.002860	.000490	.001117	.001951	.001588	.001415	.889001
9 DAIRY FACTORIES	.001310	.001782	.000403	.000819	.001434	.001177	.001085	.003486
10 FRUIT, VEG. CANNERS	.000495	.000611	.000118	.000276	.000490	.000399	.000363	.006707
11 FEED, FLR. CEREAL	.093274	.016788	.000579	.000614	.001144	.000900	.001519	.050623
12 BISCUIT, BAKERIES	.000450	.000853	.000174	.000398	.000696	.000577	.000550	.001705
13 SUGAR, CONFECT.	.001345	.000513	.000079	.000164	.000331	.000233	.000229	.002237
14 OTHER FOOD IND.	.010008	.002809	.000558	.000933	.004998	.001115	.000995	.046313
15 SOFT DRINK MFG	.000215	.000424	.000085	.000200	.000347	.000285	.000294	.000594
16 ALCOHOLIC BEV. MFG	.000692	.000588	.000192	.000271	.000484	.000316	.000595	.001409
17 TOBACCO PROD. IND.	.000031	.000030	.000016	.000015	.000026	.000021	.000018	.001516
18 RUBBER PROD. MFG.	.004874	.006032	.001894	.002888	.004743	.004116	.003029	.004419
19 LEATHER PROD. MFG.	.000180	.000286	.000163	.000131	.000228	.000178	.000182	.000311
20 SYN. TEXTILE MILLS	.000929	.000874	.002570	.000395	.000983	.000458	.000430	.001412
21 COTTON, YARN, CLOTH	.001099	.001328	.011349	.000468	.001172	.000593	.000498	.001406
22 KNITTING MILLS	.000126	.000102	.000277	.000038	.000124	.000045	.000047	.000199
23 CLOTHING IND.	.000562	.000589	.000525	.000267	.000524	.000378	.000294	.000927
24 OTHER TEXTILE IND	.005095	.003264	.012778	.001014	.005272	.001045	.000927	.004737
25 SAWMILLS	.001614	.005322	.011455	.000823	.001492	.007724	.001267	.001967



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY (COLUMNS)	1	2	3	4	5	6	7	8
INDUSTRY (ROWS)	AGRICULTURE PRODUCTS	FORESTRY PRODUCTS	FISH & FUR	METAL ORE & CONC.	NON-METAL MINERALS	COAL	OIL AND NATURAL GAS	MEAT PRODUCTS
FURNITURE, FIXTURES. 26	.000361	.000511	.000773	.000214	.000392	.000467	.000298	.000384
OTHER WOOD IND. 27	.003282	.003720	.003227	.001000	.002912	.001533	.001542	.003488
PULP & PAPER MILLS 28	.004444	.004467	.002362	.002441	.010967	.003050	.003763	.013021
OTHER PAPER IND. 29	.006191	.004054	.002598	.002157	.022886	.002439	.002791	.021307
PRINT. PUBLISHING 30	.006223	.009347	.003196	.004194	.007879	.006024	.010894	.014360
IRON, STEEL MILLS 31	.004720	.006754	.006358	.007353	.005117	.007229	.004739	.005536
SMELT. REFINING 32	.003153	.003696	.003491	.139546	.003949	.003169	.003887	.003046
OTH. PRIMARY METAL 33	.002765	.004057	.004246	.008791	.003516	.002412	.005265	.002843
STRUCTURAL METAL 34	.001184	.001840	.001812	.000987	.001077	.000948	.001267	.001056
METAL STAMPING 35	.002995	.003338	.003940	.002379	.002530	.001892	.002341	.007426
OTHER METAL MFG. 36	.007909	.016189	.007966	.006984	.009283	.008286	.007434	.007710
MACHINERY (NES) MFG 37	.008440	.010791	.010151	.009261	.010557	.010355	.009885	.006486
AIRCRAFT & PART MFG 38	.000829	.000889	.000523	.000737	.000865	.000567	.001328	.000821
MOTOR VEH. MFG. 39	.000819	.001158	.000532	.000593	.000943	.000811	.000613	.000849
VEHICLE PARTS MFG 40	.002067	.004257	.001156	.002218	.003330	.002946	.002161	.002302
OTH. TRANSP. EQUIP. 41	.000701	.001000	.012490	.001211	.000770	.001888	.000900	.000845
ELECT. APPLIANCE 42	.000573	.001085	.000593	.000524	.000720	.000650	.000586	.000576
ELEC. IND. EQUIP. 43	.000971	.001823	.000980	.000946	.001404	.001244	.001029	.000945
COM. EQUIP. & WIRE 44	.001921	.003164	.007065	.001660	.002268	.001987	.001926	.001935
OTH. ELEC. PROD. IND 45	.001863	.003603	.001493	.001819	.002771	.002433	.001888	.001858
CLAY, LIME, CEMENT 46	.002064	.002719	.003428	.003701	.029987	.001331	.002231	.001817
NON-METAL MIN. 47	.001110	.001730	.001922	.000914	.002129	.001077	.001013	.001817
PETR. PROD. IND. 48	.054340	.036124	.047147	.010918	.032453	.012380	.013627	.034680
PLASTIC, SYN. RESIN 49	.001094	.000987	.001069	.000934	.001270	.000747	.001047	.002389
PAINT & VARNISH MFG 50	.001960	.004170	.001000	.002039	.003282	.002896	.002302	.002069

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY (COLUMNS) INDUSTRY (ROWS)	1 AGRICULTURE PRODUCTS	2 FORESTRY PRODUCTS	3 FISH & FUR	4 METAL ORES & CONC.	5 NON-METAL MINERALS	6 COAL	7 OIL AND NATURAL GAS	8 MEAT PRODUCTS
PHARM. SOAP, TOILET 51	.002932	.004281	.000597	.001943	.003318	.002796	.001913	.014844
OTH. CHEMICALS IND 52	.028036	.010897	.006113	.023365	.026537	.013186	.009553	.019000
MISC. MFG. IND. 53	.003071	.005259	.006385	.005682	.004606	.003418	.002930	.004376
CONSTRUCTION 54	.030881	.039710	.058618	.017670	.017942	.014516	.033969	.023791
TRADE, WH. & RETAIL 55	.064576	.068250	.040271	.034378	.058933	.047213	.036293	.247836
TRANSPORT, STORAGE 56	.053269	.062938	.049194	.023920	.041131	.023005	.035799	.065353
COMMUNICATIONS 57	.009570	.011562	.005847	.005780	.009607	.006871	.012674	.017460
UTILITIES 58	.017570	.009987	.004934	.031321	.034635	.056404	.023539	.019854
FIN. INSUR. & EST. 59	.046749	.104088	.029127	.022284	.031828	.040688	.195240	.043194
BUSINESS SERVICES 60	.004658	.007984	.003927	.011099	.011292	.006230	.029002	.007741
HOTEL, RESTAURANT 61	.004088	.006346	.002301	.002837	.005359	.003552	.007168	.010859
OTHER SERVICES 62	.008483	.049791	.004788	.009566	.025888	.022587	.016171	.013612
OFFICE SUPPLIES 63	.004690	.006896	.002101	.003104	.004392	.005336	.008613	.007836
ADVTG. AND TRAVEL 64	.012054	.019089	.006600	.008594	.016379	.010715	.021981	.033976
OPERATING SUPPL. 65	.051164	.128532	.011320	.060998	.102482	.093286	.058578	.055212
NON-COMP. IMPORTS 66	.001758	.001138	.002543	.000476	.001162	.000618	.000523	.005151
BAL. OF PAYMNT ADJ 67	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 68	.012925	.015109	.011313	.006262	.012235	.006765	.008391	.012762
SUBSIDIES 69	-.011347	-.004335	-.005276	-.012285	-.003093	-.217339	-.002927	-.009902
INDIR. TAX & GOV. SERV 70	.061598	.051142	.016001	.017979	.031709	.013846	.050178	.043928
WAGES & SALARIES 71	.214992	.523030	.262402	.357343	.408464	.713768	.286303	.372063
NET-INC. UNINCORP. 72	.343110	.107166	.349367	.015920	.035706	.022199	.047396	.198116
SURPLUS 73	.292825	.231100	.284888	.539350	.432392	.405801	.546312	.247688
SUB TOTAL (66-73) 74	.915859	.924352	.921237	.925043	.918575	.945659	.936176	.869806

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	DAIRY PRODUCTS 9	FRUITS&VEG. PRODUCTS 10	FEED, FLOUR CEREALS 11	BAKERY PRODUCTS 12	SUGAR, CONFECT. 13	OTHER FOOD PRODUCTS 14	SOFT DRINKS 15	ALCOHOLIC BEVERAGES 16
INDUSTRY(ROWS)								
1 AGRICULTURE	.574111	.213972	.472815	.113697	.096584	.196888	.020538	.063899
2 FORESTRY	.007521	.008091	.007896	.009593	.008256	.008837	.004929	.008657
3 FISHING HUNTING	.002979	.006913	.010038	.006759	.004879	.114346	.003139	.005799
4 METAL MINES	.002479	.007127	.002471	.001969	.001603	.002944	.002875	.003072
5 NON-METAL MINES	.001243	.002431	.002524	.001741	.001717	.001999	.000928	.001809
6 COAL MINES	.001167	.002310	.000952	.000759	.001300	.001057	.000816	.001313
7 PETROLEUM NAT.GAS	.014949	.008624	.013033	.010181	.006118	.009964	.006519	.005929
8 MEAT,POULTRY PROC.	.008059	.044083	.037744	.042702	.004121	.025004	.005258	.006330
9 DAIRY FACTORIES	1.037645	.023660	.005596	.016444	.024532	.014005	.004880	.003442
10 FRUIT,VEG.CANNERS	.005268	.977591	.002518	.019842	.005499	.013486	.001804	.002364
11 FEED,FLR.CEREAL	.050056	.022917	1.090823	.145042	.013583	.047980	.003417	.014772
12 BISCUIT,BAKERIES	.001161	.002039	.001035	.987375	.007231	.001888	.002091	.001544
13 SUGAR,CONFECT.IND	.011768	.032161	.011057	.044023	1.041408	.021086	.082208	.003869
14 OTHER FOOD IND.	.024803	.059048	.078510	.056950	.041755	.993294	.026453	.049460
15 SOFT DRINK MFG	.000676	.002074	.000512	.001184	.000444	.000698	1.094927	.001025
16 ALCOHOLIC BEV.MFG	.001181	.002769	.005044	.002079	.001263	.003248	.007993	1.037955
17 TOBACCO PROD.IND.	.000032	.000091	.000078	.000095	.000027	.000056	.000028	.000032
18 RUBBER PROD.MFG.	.004371	.004027	.004762	.003626	.002909	.003663	.002546	.003627
19 LEATHER PROD.MFG.	.000254	.000346	.000342	.000315	.000252	.000346	.000412	.000415
20 SYN.TEXTILE MILLS	.000933	.001202	.002176	.001326	.000973	.001336	.000638	.001203
21 COTTON,YARN,CLOTH	.001157	.001246	.002746	.001272	.001074	.002615	.000800	.001161
22 KNITTING MILLS	.000100	.000090	.000322	.000112	.000104	.000133	.000052	.000067
23 CLOTHING IND.	.000517	.000507	.000793	.000508	.000409	.000523	.000326	.000402
24 OTHER TEXTILE IND	.003920	.003421	.015651	.004807	.004864	.005690	.001586	.002395
25 SAWMILLS	.001950	.002191	.002047	.002156	.001742	.003252	.001189	.002615



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	DAIRY PRODUCTS 9	FRUIT&VEG. PRODUCTS 10	FEED, FLOUR CEREALS 11	BAKERY PRODUCTS 12	SUGAR, CONFECT. 13	OTHER FOOD PRODUCTS 14	SOFT DRINKS 15	ALCOHOLIC BEVERAGES 16
FURNITURE, FIXTURES. 26	.000406	.000579	.000501	.000359	.000303	.000484	.000295	.000520
OTHER WOOD IND. 27	.003783	.002645	.002683	.001885	.001523	.003993	.001284	.007261
PULP&PAPER MILLS 28	.015243	.024306	.017887	.034161	.030165	.024825	.014986	.025215
OTHER PAPER IND. 29	.029620	.050791	.031236	.071364	.056506	.039929	.017639	.043580
PRINT. PUBLISHING 30	.014381	.024336	.019118	.021757	.017062	.024610	.043712	.045979
IRON, STEEL MILLS 31	.007190	.033892	.007595	.005203	.004321	.010301	.011406	.009303
SMELT. REFINING 32	.003510	.009424	.003566	.002905	.002468	.004131	.004051	.003905
OTH. PRIMARY METAL 33	.003283	.008675	.003309	.002968	.002418	.003854	.003592	.003595
STRUCTURAL METAL 34	.001155	.002132	.001184	.000879	.000718	.001194	.000971	.001005
METAL STAMPING 35	.013262	.113574	.009881	.006870	.006321	.019284	.034055	.023585
OTHER METAL MFG. 36	.008477	.017505	.008159	.006556	.005520	.008644	.007556	.008188
MACHINERY (NES) MFG 37	.006930	.006196	.006494	.004733	.004110	.005954	.003492	.004647
AIRCRAFT & PART MFG 38	.000835	.001001	.001044	.001058	.000705	.000985	.000955	.001687
MOTOR VEH. MFG. 39	.000823	.000968	.000927	.000840	.000682	.000790	.000603	.000721
VEHICLE PARTS MFG 40	.002594	.005597	.002712	.002244	.001912	.002641	.002559	.002776
OTH. TRANSP. EQUIP. 41	.000779	.001087	.001507	.000997	.000710	.002285	.000732	.001088
ELECT. APPLIANCE 42	.000656	.001602	.000616	.000500	.000424	.000680	.000660	.000651
ELEC. IND. EQUIP. 43	.001010	.001221	.000986	.000856	.000729	.000954	.000732	.000887
COM. EQUIP. & WIRE 44	.001947	.002356	.002087	.001780	.001459	.002475	.001500	.001772
OTH. ELEC. PROD. IND 45	.001976	.002020	.001977	.001747	.001502	.001860	.001438	.001775
CLAY, LIME, CEMENT 46	.001979	.002864	.002136	.001764	.001518	.002158	.001382	.002295
NON-METAL MIN. 47	.004239	.020785	.002043	.002005	.001624	.006850	.003139	.029607
PETR. PROD. IND. 48	.039925	.022133	.034583	.025931	.015059	.025866	.016866	.015077
PLASTIC, SYN. RESIN 49	.001859	.002197	.001457	.011530	.003543	.002914	.001280	.001854
PAINT & VARNISH MFG 50	.002283	.003200	.002109	.002203	.001765	.002221	.001857	.002210



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	DAIRY PRODUCTS 9	FRUIT&VEG. PRODUCTS 10	FEED,FLOUR CEREALS 11	BAKERY PRODUCTS 12	SUGAR, CONFECT. 13	OTHER FOOD PRODUCTS 14	SOFT DRINKS 15	ALCOHOLIC BEVERAGES 16
INDUSTRY(ROWS)								
PHARM.SOAP,TOILET51	.005559	.007679	.014122	.009894	.005203	.028194	.002983	.003471
OTH.CHEMICALS IND52	.019506	.018759	.019711	.016026	.014388	.021724	.020367	.012650
MISC. MFG. IND. 53	.004576	.005816	.005129	.005576	.005129	.006089	.004080	.005143
CONSTRUCTION 54	.024244	.018910	.026846	.017270	.013696	.023550	.013582	.014901
TRADE,WH.&RETAIL 55	.070819	.084293	.086043	.084046	.055801	.074483	.048349	.056402
TRANSPORT,STORAGE56	.056035	.068368	.154470	.075153	.053932	.081205	.045126	.057597
COMMUNICATIONS 57	.013228	.017419	.016744	.016021	.012002	.016849	.020150	.019297
UTILITIES 58	.021062	.020611	.022457	.020139	.014994	.017799	.015273	.021301
FIN.INSUR.RL.EST.59	.040826	.036879	.039846	.040769	.027156	.034098	.034465	.026718
BUSINESS SERVICES60	.007991	.011486	.008823	.017074	.009337	.012673	.015935	.034802
HOTEL,RESTAURANT 61	.012001	.022422	.016689	.018432	.014419	.023594	.040448	.035498
OTHER SERVICES 62	.017211	.020831	.014316	.016744	.011892	.014875	.015196	.016720
OFFICE SUPPLIES 63	.005870	.006592	.007373	.006571	.004835	.006040	.006728	.006340
ADVTG. AND TRAVEL64	.037829	.071541	.052287	.058544	.045837	.075418	.130667	.114419
OPERATING SUPPL. 65	.060958	.056777	.054590	.054360	.047511	.052136	.042356	.056655
NON-COMP.IMPORTS 66	.005500	.013705	.009941	.015953	.259639	.082940	.022911	.007289
BAL.OF PAYMNT ADJ67	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 68	.015442	.010952	.014013	.016928	.007010	.011269	.014988	.011397
SUBSIDIES 69	-.008847	-.006241	-.022271	-.006684	-.004005	-.006931	-.003450	-.004356
INDIR.TAX&GOV.SER70	.044728	.032130	.043362	.029891	.023418	.030412	.027253	.032995
WAGES & SALARIES 71	.350084	.432566	.371530	.516616	.353164	.371736	.488912	.395331
NET-INC.UNINCORP.72	.201186	.095603	.177847	.092761	.051293	.123321	.043883	.052774
SURPLUS 73	.255515	.262097	.249012	.217517	.226100	.245514	.324004	.394002
SUB TOTAL(66-73) 74	.863607	.840813	.843434	.882982	.916619	.858262	.918502	.889432

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	TOBACCO PRODUCTS 17	RUBBER PRODUCTS 18	LEATHER PRODUCTS 19	SYNTHETIC TEXTILES 20	COTTON YARN,CLOTH 21	KNITTED PRODUCTS 22	CLOTHING 23	OTHER TEXTILES 24
1 AGRICULTURE	.402131	.007582	.057046	.008886	.006171	.008867	.020988	.020194
2 FORESTRY	.014348	.004199	.006737	.008014	.002979	.004866	.004085	.007965
3 FISHING HUNTING	.000725	.000540	.001122	.001697	.000846	.001621	.014169	.001452
4 METAL MINES	.002209	.005434	.002810	.002712	.001348	.001705	.001863	.003269
5 NON-METAL MINES	.001106	.003521	.001522	.002500	.000865	.001017	.000783	.001813
6 COAL MINES	.000792	.002166	.001376	.001260	.002022	.001247	.000697	.001540
7 PETROLEUM NAT.GAS	.010147	.006435	.004973	.007681	.003237	.004094	.003581	.005590
8 MEAT,POULTRY PROC.	.009507	.002768	.084061	.002025	.001295	.001997	.002377	.002549
9 DAIRY FACTORIES	.002516	.001593	.002322	.001375	.000925	.001360	.001385	.001748
10 FRUIT,VEG.CANNERS	.000889	.000540	.001283	.000547	.000341	.000472	.000465	.000593
11 FEED,FLR.CEREAL	.035054	.001344	.006170	.001673	.002353	.001423	.002511	.002649
12 BISCUIT,BAKERIES	.001253	.000787	.001154	.000611	.000425	.000670	.000662	.000817
13 SUGAR,CONFECT.IND	.002728	.000358	.000629	.000485	.000278	.000325	.000328	.000434
14 OTHER FOOD IND.	.005305	.003640	.007848	.012573	.005462	.004057	.003790	.006051
15 SOFT DRINK MFG	.000734	.000466	.000633	.000330	.000224	.000380	.000372	.000459
16 ALCOHOLIC BEV.MFG	.002303	.001452	.001771	.000895	.000516	.001023	.001032	.001258
17 TOBACCO PROD.IND.	1.281511	.000023	.000174	.000021	.000018	.000022	.000030	.000030
18 RUBBER PROD.MFG.	.003818	.988867	.053501	.009755	.007526	.008019	.012490	.025478
19 LEATHER PROD.MFG.	.000416	.008750	1.180097	.000460	.000340	.003370	.008015	.003545
20 SYN.TEXTILE MILLS	.001040	.012693	.006944	1.120271	.107850	.221487	.100639	.093853
21 COTTON,YARN,CLOTH	.001177	.058397	.021305	.045528	1.078744	.089511	.107869	.099247
22 KNITTING MILLS	.000102	.000688	.008877	.012188	.003593	.964221	.052079	.016771
23 CLOTHING IND.	.000510	.003879	.007302	.012373	.010509	.075896	.977729	.019710
24 OTHER TEXTILE IND	.004383	.019608	.016447	.048165	.053952	.089402	.110114	.900020
25 SAWMILLS	.003362	.001384	.002625	.001610	.000908	.001268	.001433	.002788

TABLE 11. IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY (COLUMNS)	TOBACCO PRODUCTS 17	RUBBER PRODUCTS 18	LEATHER PRODUCTS 19	SYNTHETIC TEXTILES 20	COTTON YARN, CLOTH 21	KNITTED PRODUCTS 22	CLOTHING 23	OTHER TEXTILES 24
INDUSTRY (ROWS)								
FURNITURE, FIXTURES. 26	.000532	.000464	.000687	.000653	.000458	.000923	.001145	.008614
OTHER WOOD IND. 27	.005710	.001886	.004873	.001667	.001159	.001515	.001780	.005879
PULP & PAPER MILLS 28	.046046	.013131	.019041	.031522	.009958	.017197	.012609	.024738
OTHER PAPER IND. 29	.083877	.018604	.021922	.014616	.012445	.021078	.015578	.038209
PRINT. PUBLISHING 30	.032111	.019630	.023098	.010954	.007365	.014391	.014892	.018225
IRON, STEEL MILLS 31	.005346	.007572	.006338	.004443	.002662	.003100	.003211	.005391
SMELT. REFINING 32	.003275	.011668	.004626	.005182	.002472	.002922	.002990	.006187
OTH. PRIMARY METAL 33	.003400	.004034	.003416	.002674	.001683	.002143	.002365	.004691
STRUCTURAL METAL 34	.001055	.001214	.001102	.000965	.000592	.000733	.000820	.001338
METAL STAMPING 35	.006297	.005404	.004439	.003251	.001603	.001985	.002233	.003629
OTHER METAL MFG. 36	.007303	.014842	.013034	.006183	.004342	.005046	.004893	.009712
MACHINERY (MFG) 37	.006043	.004711	.006690	.004794	.003359	.003773	.003451	.004756
AIRCRAFT & PART MFG 38	.001054	.001793	.001218	.000928	.000510	.000774	.000776	.000901
MOTOR VEH. MFG. 39	.000813	.000703	.001083	.000668	.000541	.000635	.000789	.000857
VEHICLE PARTS MFG 40	.002179	.005451	.002585	.002207	.001530	.001727	.001584	.002266
OTH. TRANSP. EQUIP. 41	.000773	.000663	.000784	.000558	.000420	.000545	.000670	.000659
ELECT. APPLIANCE 42	.000566	.000759	.000826	.000499	.001361	.000461	.000510	.000660
ELEC. IND. EQUIP. 43	.000940	.000915	.001141	.000868	.000655	.000714	.000725	.000968
COM. EQUIP. & WIRE 44	.001879	.002275	.002254	.001639	.001191	.001399	.001550	.001881
OTH. ELEC. PROD. IND 45	.001923	.002189	.002438	.002183	.001388	.001591	.001646	.002119
CLAY, LIME, CEMENT 46	.002129	.001587	.001805	.001533	.001002	.001227	.001188	.003130
NON-METAL MIN. 47	.001384	.004635	.001740	.002613	.000954	.001313	.001307	.002640
PETR. PROD. IND. 48	.026774	.013988	.012348	.018761	.008119	.010144	.008983	.013897
PLASTIC, SYN. RESIN 49	.001867	.009359	.003004	.010579	.002219	.003436	.003216	.007082
PAINT & VARNISH MFG 50	.002051	.006014	.003600	.003967	.001802	.002113	.001709	.003017



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	TOBACCO PRODUCTS 17	RUBBER PRODUCTS 18	LEATHER PRODUCTS 19	SYNTHETIC TEXTILES 20	COTTON YARN,CLOTH 21	KNITTED PRODUCTS 22	CLOTHING 23	OTHER TEXTILES 24
INDUSTRY(ROWS)								
PHARM.SOAP,TOILET51	.002465	.003087	.003942	.003396	.001883	.002246	.001864	.003741
OTH.CHEMICALS IND52	.016372	.115626	.037841	.120513	.033408	.036396	.022001	.044870
MISC. MFG. IND. 53	.012852	.016615	.025761	.005362	.003480	.010045	.025393	.023192
CONSTRUCTION 54	.022963	.012295	.013074	.015080	.011471	.011995	.010992	.014230
TRADE,WH. RETAIL 55	.067449	.058232	.108876	.050062	.046261	.058294	.091844	.158975
TRANSPORT,STORAGE56	.051534	.040158	.043524	.039521	.031601	.035347	.032908	.043650
COMMUNICATIONS 57	.016852	.015454	.018680	.011589	.007741	.013705	.013887	.016286
UTILITIES 58	.015415	.024022	.017040	.024413	.021618	.016253	.012732	.020339
FIN.INSUR.RL. EST.59	.044890	.031675	.034709	.033833	.016773	.041598	.039087	.033795
BUSINESS SERVICES60	.014449	.009691	.012205	.006084	.004263	.010199	.008381	.008800
HOTEL,RESTAURANT 61	.027306	.015730	.021017	.008406	.005594	.012045	.012476	.014329
OTHER SERVICES 62	.014026	.011316	.024351	.011641	.010212	.011255	.010265	.014961
OFFICE SUPPLIES 63	.005257	.008248	.008331	.006131	.004040	.006008	.006930	.008132
ADVTG. AND TRAVEL64	.087612	.050242	.066954	.026417	.017452	.038234	.039421	.045429
OPERATING SUPPL. 65	.052671	.047228	.059405	.061098	.042702	.047283	.036963	.059142
NON-COMP.IMPORTS 66	.001850	.067115	.008662	.016083	.211387	.020451	.023516	.028574
BAL.OF PAYMNT ADJ67	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 68	.010528	.006115	.008617	.005676	.004028	.005942	.005694	.007833
SUBSIDIES 69	-.006515	-.003349	-.004350	-.002813	-.002408	-.002885	-.003192	-.004509
INDIR.TAX&GOV.SER70	.040717	.022483	.023587	.022008	.016514	.022171	.019217	.024754
WAGES & SALARIES 71	.383271	.461807	.617209	.458133	.402761	.523843	.544661	.497590
NET-INC.UNINCORP.72	.146380	.022181	.051253	.020453	.015160	.028407	.043389	.041850
SURPLUS 73	.296041	.257026	.138067	.291622	.177465	.174068	.149626	.194527
SUB TOTAL(66-73) 74	.872273	.833377	.843047	.811162	.824908	.771996	.782911	.790619



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	SAWMILL PRODUCTS 25	FURNITURE, FIXTURES 26	OTHER WOOD PRODUCTS 27	PULP & PAPER 28	OTHER PAPER PRODUCTS 29	PRINTED MATTER 30	STEEL MILL PRODUCTS 31	SMELT.&REF. PRODUCTS 32
1 AGRICULTURE	.042608	.010621	.026209	.026086	.014239	.009181	.005987	.003560
2 FORESTRY	.405149	.032706	.204536	.229997	.079715	.041871	.002934	.001670
3 FISHING HUNTING	.000460	.000363	.000356	.000590	.000418	.000314	.000324	.000145
4 METAL MINES	.002397	.010378	.003094	.002563	.004696	.002075	.126115	.449224
5 NON-METAL MINES	.000788	.001314	.001159	.004309	.004367	.001296	.006024	.003950
6 COAL MINES	.000478	.001558	.000763	.004556	.002139	.001110	.020040	.004246
7 PETROLEUM NAT.GAS	.010001	.004698	.009137	.012111	.013757	.004659	.009727	.012393
8 MEAT,POULTRY PROC.	.002288	.002312	.002144	.001905	.002100	.001899	.001809	.001002
9 DAIRY FACTORIES	.001614	.001559	.001648	.001307	.001798	.001475	.001373	.000754
10 FRUIT,VEG.CANNERS	.000545	.000504	.000525	.000461	.000519	.000498	.000466	.000251
11 FEED,FLR.CEREAL	.007305	.001756	.004419	.004528	.002421	.001550	.001024	.000612
12 BISCUIT,BAKERIES	.000766	.000752	.000766	.000622	.001049	.000759	.000664	.000367
13 SUGAR,CONFECT.IND	.000392	.000321	.000351	.000344	.000512	.000384	.000283	.000151
14 OTHER FOOD IND.	.002824	.002271	.002201	.004224	.002721	.001759	.002150	.000872
15 SOFT DRINK MFG	.000381	.000417	.000396	.000317	.000414	.000450	.000332	.000190
16 ALCOHOLIC BEV.MFG	.000572	.001630	.000812	.001262	.001214	.001364	.000453	.000329
17 TOBACCO PROD.IND	.000033	.000034	.000037	.000023	.000026	.000018	.000027	.000015
18 RUBBER PROD.MFG.	.005648	.020819	.005061	.004289	.004643	.004104	.004616	.002549
19 LEATHER PROD.MFG.	.000309	.005033	.000636	.000705	.000537	.000349	.000203	.000140
20 SYN.TEXTILE MILLS	.001841	.032420	.003108	.001657	.003441	.003551	.000582	.000523
21 COTTON,YARN,CLOTH	.001487	.016222	.001761	.001388	.003497	.001809	.000722	.000573
22 KNITTING MILLS	.000102	.000865	.000117	.000158	.000241	.000104	.000053	.000036
23 CLOTHING IND.	.000572	.001475	.000618	.000517	.000764	.000353	.000442	.000239
24 OTHER TEXTILE IND	.002910	.030304	.003065	.007156	.020715	.002958	.001279	.000890
25 SAWMILLS	.967813	.048197	.152630	.024981	.014061	.005047	.001542	.001076

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	SAWMILL PRODUCTS 25	FURNITURE, FIXTURES 26	OTHER WOOD PRODUCTS 27	PULP & PAPER 28	OTHER PAPER PRODUCTS 29	PRINTED MATTER 30	STEEL MILL PRODUCTS 31	SMELT.&REF. PRODUCTS 32
FURNITURE, FIXTRS. 26	.029373	.896436	.025735	.001066	.001193	.000376	.000419	.000262
OTHER WOOD IND. 27	.082973	.050915	.990293	.006100	.006636	.001986	.003070	.001312
PULP&PAPER MILLS 28	.009429	.017206	.009472	1.033778	.342634	.184493	.005403	.003121
OTHER PAPER IND. 29	.008686	.017633	.010922	.020950	.950231	.028238	.004235	.003028
PRINT.PUBLISHING 30	.009091	.016310	.012277	.008882	.047628	1.064530	.007041	.005190
IRON, STEEL MILLS 31	.006802	.037789	.009627	.005602	.010841	.003762	.987864	.029345
SMELT. REFINING 32	.003528	.017767	.004549	.004182	.008097	.003894	.109294	1.245265
OTH.PRIMARY METAL 33	.003691	.021926	.004412	.003240	.010868	.005844	.016379	.042622
STRUCTURAL METAL 34	.001990	.003238	.003409	.001247	.001563	.000763	.010092	.004043
METAL STAMPING 35	.003484	.049258	.009940	.002775	.008105	.001840	.006488	.005277
OTHER METAL MFG. 36	.013092	.055151	.018622	.013822	.011019	.006345	.048080	.011084
MACHINERY(NES)MFG37	.008108	.011523	.006871	.006633	.005452	.004361	.012937	.008177
AIRCRAFT&PART MFG38	.000839	.001473	.000908	.000837	.000973	.001251	.000791	.001495
MOTOR VEH. MFG. 39	.001174	.001270	.001206	.000846	.000833	.000539	.001130	.000665
VEHICLE PARTS MFG40	.003687	.003523	.003306	.002971	.002760	.001809	.004234	.002813
OTH.TRANSP.EQUIP.41	.000992	.002714	.001033	.000843	.000891	.000602	.002023	.001363
ELECT.APPLIANCE 42	.000885	.006350	.001524	.000809	.000689	.000435	.000969	.000671
ELEC.IND. EQUIP. 43	.001510	.002948	.001366	.001252	.001120	.000725	.001716	.001044
COM.EQUIP.&WIRE 44	.002729	.009596	.002617	.002198	.002179	.001526	.008313	.002713
OTH.ELEC.PROD.IND45	.003128	.031069	.002642	.002509	.002393	.001541	.004931	.002159
CLAY,LIME,CEMENT 46	.002093	.002445	.004029	.003061	.007036	.001424	.020370	.008351
NON-METAL MIN. 47	.002206	.008021	.008238	.001712	.003220	.000945	.003210	.001097
PETR. PROD. IND. 48	.026627	.011377	.023976	.023507	.033789	.010410	.019905	.013286
PLASTIC, SYN. RESIN 49	.001711	.003839	.009582	.001717	.009493	.001598	.001051	.001012
PAINT&VARNISH MFG50	.005154	.013348	.007159	.002986	.003541	.001924	.003183	.001756

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	SAWMILL PRODUCTS 25	FURNITURE, FIXTURES 26	OTHER WOOD PRODUCTS 27	PULP & PAPER 28	OTHER PAPER PRODUCTS 29	PRINTED MATTER 30	STEEL MILL PRODUCTS 31	SHELT.&REF. PRODUCTS 32
INDUSTRY(ROWS)								
PHARM.SOAP,TOILET51	.003405	.002179	.002823	.002954	.002857	.002010	.002810	.001583
OTH.CHEMICALS IND52	.011515	.019240	.018726	.028354	.036629	.021421	.018518	.019390
MISC. MFG. IND. 53	.005057	.028528	.007755	.004493	.029940	.004404	.004699	.008804
CONSTRUCTION 54	.028425	.014062	.022734	.021471	.019057	.013508	.016105	.022551
TRADE,WH.&RETAIL 55	.080414	.088556	.111437	.053420	.067474	.038341	.064303	.034087
TRANSPORT,STORAGE56	.077392	.049849	.082688	.062356	.069930	.042602	.056507	.039963
COMMUNICATIONS 57	.012372	.016301	.016117	.009275	.018354	.030209	.009684	.006918
UTILITIES 58	.019894	.018602	.023080	.057583	.031050	.020047	.044323	.054237
FIN.INSUR.,RL.EST.59	.061398	.038124	.053427	.040762	.042375	.036059	.020093	.020747
BUSINESS SERVICES60	.007878	.010267	.007808	.007464	.009172	.008860	.006783	.011325
HOTEL,RESTAURANT 61	.006390	.013201	.009424	.005764	.011644	.015287	.005301	.003723
OTHER SERVICES 62	.029891	.014537	.021288	.021913	.019452	.026239	.014633	.009058
OFFICE SUPPLIES 63	.006373	.007355	.007344	.004850	.007258	.009004	.004427	.003550
ADVTG. AND TRAVEL64	.019158	.041557	.028857	.017590	.036589	.048915	.016056	.011383
OPERATING SUPPL. 65	.106331	.049965	.079413	.084417	.067160	.048331	.095815	.047081
NON-COMP.IMPORTS 66	.001119	.005178	.001135	.001131	.001681	.001027	.000800	.000470
BAL.OF PAYMNT ADJ67	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 68	.011996	.007541	.010605	.008360	.008704	.008472	.007614	.005703
SUBSIDIES 69	-.004361	-.003940	-.004976	-.004224	-.004492	-.003808	-.009069	-.007949
INDIR.TAX&GOV.SER70	.034593	.024717	.030110	.033769	.033267	.024488	.020930	.023469
WAGES & SALARIES 71	.593302	.568380	.590991	.457296	.506861	.602195	.459962	.388241
NET-INC.UNINCORP.72	.070019	.047035	.057834	.038518	.033015	.039318	.019973	.015991
SURPLUS 73	.213540	.205345	.214654	.374605	.279914	.243594	.345764	.382871
SUB TOTAL(66-73) 74	.920207	.854256	.900353	.909456	.858950	.915285	.845973	.808796



TABLE 11. IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	OTHER METALS 33	STRUCTURAL METAL 34	METAL STAMPINGS 35	OTHER METAL PRODUCTS 36	MACHINERY (N.E.S.) 37	AIRCRAFT & PARTS 38	MOTOR VEHICLES 39	VEHICLE PARTS 40
AGRICULTURE 1	.005765	.005643	.006398	.006870	.007282	.005437	.005804	.005780
FORESTRY 2	.003355	.003214	.004193	.004629	.006115	.002977	.003296	.003873
FISHING HUNTING 3	.000257	.000298	.000333	.000292	.000438	.000211	.000267	.000229
METAL MINES 4	.142110	.042425	.043420	.037315	.031338	.012113	.009905	.026172
NON-METAL MINES 5	.003334	.002503	.002320	.002331	.006034	.000941	.001476	.002148
COAL MINES 6	.004796	.006341	.005690	.003924	.003615	.001052	.001785	.003784
PETROLEUM NAT.GAS 7	.008055	.005335	.005639	.005226	.012156	.004405	.003444	.004693
MEAT,POULTRY PROC.8	.001541	.001693	.001563	.002065	.002140	.001719	.001752	.001646
DAIRY FACTORIES 9	.001208	.001310	.001188	.001623	.001980	.001262	.001402	.001283
FRUIT,VEG.CANNERS10	.000400	.000442	.000393	.000541	.000557	.000421	.000456	.000421
FEED,FLR.CEREAL 11	.000991	.000965	.002733	.001164	.001389	.000909	.001005	.000992
BISCUIT,BAKERIES 12	.000583	.000641	.000566	.000813	.000709	.000633	.000693	.000622
SUGAR,CONFECT.IND13	.000243	.000269	.000261	.000324	.000381	.000250	.000275	.000251
OTHER FOOD IND. 14	.001645	.001925	.002023	.001791	.003118	.001190	.001570	.001355
SOFT DRINK MFG 15	.000303	.000335	.000296	.000454	.000470	.000350	.000398	.000324
ALCOHOLIC BEV.MFG16	.000559	.000599	.000583	.001073	.000979	.000782	.001078	.000607
TOBACCO PROD.IND.17	.000026	.000025	.000023	.000028	.000145	.000022	.000026	.000027
RUBBER PROD.MFG. 18	.004881	.004445	.004234	.006088	.010488	.015430	.034255	.010957
LEATHER PROD.MFG.19	.000217	.000223	.000223	.000381	.000352	.000546	.000664	.000322
SYN.TEXTILE MILLS20	.000658	.000643	.000839	.001682	.003515	.001176	.008808	.001701
COTTON,YARN,CLOTH21	.000772	.000729	.000840	.001232	.001408	.001680	.005078	.001569
KNITTING MILLS 22	.000052	.000052	.000058	.000084	.000122	.000097	.000332	.000093
CLOTHING IND. 23	.000385	.000390	.000384	.000448	.000624	.000422	.000748	.000468
OTHER TEXTILE IND24	.001279	.001343	.002423	.002286	.002684	.002282	.012259	.002789
SAWMILLS 25	.001933	.001776	.002748	.003409	.004741	.001796	.002070	.001933



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	OTHER METAL 33	STRUCTURAL METAL 34	METAL STAMPINGS 35	OTHER METAL PRODUCTS 36	MACHINERY (N.E.S.) 37	AIRCRAFT & PARTS 38	MOTOR VEHICLES 39	VEHICLE PARTS 40
INDUSTRY(ROWS)								
FURNITURE, FIXTRS. 26	.001002	.000635	.001952	.003936	.002210	.000645	.001673	.000773
OTHER WOOD IND. 27	.003394	.002688	.005839	.005405	.003647	.003151	.002038	.002627
PULP&PAPER MILLS 28	.007159	.007592	.008078	.008795	.014906	.006402	.007513	.010529
OTHER PAPER IND. 29	.005345	.009325	.011393	.009298	.006281	.005167	.008279	.017928
PRINT. PUBLISHING 30	.008765	.009992	.009622	.015745	.016419	.012909	.014724	.009525
IRON, STEEL MILLS 31	.162403	.293761	.256461	.161041	.090309	.027619	.037465	.112087
SMELT. REFINING 32	.354895	.045393	.057260	.062678	.041923	.024285	.016907	.044170
OTH. PRIMARY METAL 33	.920635	.022192	.052814	.058920	.043726	.032078	.025383	.070315
STRUCTURAL METAL 34	.009192	.813129	.011160	.031936	.020248	.007889	.003075	.005118
METAL STAMPING 35	.010180	.058765	.944459	.072715	.033943	.014888	.014609	.028667
OTHER METAL MFG. 36	.085629	.165191	.097506	.816103	.132910	.042566	.040177	.086727
MACHINERY (INES) MFG 37	.015397	.034035	.011336	.055387	.784864	.022920	.008461	.013853
AIRCRAFT & PART MFG 38	.001299	.001059	.001031	.011446	.004041	1.018865	.001354	.001237
MOTOR VEH. MFG. 39	.001112	.003387	.001402	.006358	.008447	.001180	1.002953	.077868
VEHICLE PARTS MFG 40	.021525	.015542	.030769	.019097	.016158	.011797	.182650	.944866
OTH. TRANSP. EQUIP. 41	.004587	.005269	.002111	.009632	.014040	.002147	.009924	.002586
ELECT. APPLIANCE 42	.002588	.005113	.009842	.031272	.016800	.003562	.003868	.005250
ELEC. IND. EQUIP. 43	.001873	.006129	.003581	.016041	.018115	.002878	.004152	.008371
COM. EQUIP. & WIRE 44	.014000	.007167	.005678	.029350	.017673	.024714	.008121	.008450
OTH. ELEC. PROD. IND 45	.003736	.007198	.003032	.012757	.006728	.004465	.008437	.005111
CLAY, LIME, CEMENT 46	.007181	.010518	.006553	.006153	.005351	.002245	.002812	.006510
NON-METAL MIN. 47	.002118	.002581	.004830	.005710	.002810	.003961	.014528	.004852
PETR. PROD. IND. 48	.014408	.011602	.012027	.011198	.009728	.010692	.008113	.010332
PLASTIC, SYN. RESIN 49	.001544	.001420	.004068	.003261	.002118	.004312	.002423	.003472
PAINT & VARNISH MFG 50	.003028	.005091	.011805	.005265	.004444	.003020	.011417	.004213

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	OTHER PRIMARY METAL 33	STRUCTURAL METAL 34	METAL STAMPINGS 35	OTHER METAL PRODUCTS 36	MACHINERY (N.E.S.) 37	AIRCRAFT & PARTS 38	MOTOR VEHICLES 39	VEHICLE PARTS 40
INDUSTRY(ROWS)								
PHARM.SOAP,TOILET51	.002149	.002393	.002413	.002397	.002440	.002030	.001786	.002237
OTH.CHEMICALS IND52	.015097	.011429	.016038	.013545	.012226	.009274	.013901	.010838
MISC. MFG. IND. 53	.006805	.007470	.006248	.031683	.013958	.062669	.009412	.014511
CONSTRUCTION 54	.022756	.012766	.013614	.014326	.015292	.017744	.012761	.016859
TRADE,WH.&RETAIL 55	.062824	.057287	.059307	.066033	.054064	.048091	.062080	.065992
TRANSPORT,STORAGE56	.060219	.039286	.048371	.044284	.040910	.067912	.049857	.045301
COMMUNICATIONS 57	.011421	.013125	.012329	.017324	.062195	.014352	.013194	.011335
UTILITIES 58	.040534	.023849	.025842	.024805	.018740	.014162	.014005	.023719
FIN.INSUR.RL.EST.59	.027589	.021226	.025553	.029078	.038554	.027016	.017221	.020420
BUSINESS SERVICES60	.009093	.006834	.006114	.009837	.008765	.011062	.010728	.005991
HOTEL,RESTAURANT 61	.006716	.007235	.006751	.013256	.011173	.009718	.013336	.007337
OTHER SERVICES 62	.013615	.015626	.023471	.017099	.015893	.015009	.016086	.014502
OFFICE SUPPLIES 63	.005337	.006453	.006354	.007575	.007253	.008371	.005870	.005282
ADVTG. AND TRAVEL64	.020631	.022562	.020934	.042014	.035332	.030525	.042305	.022754
OPERATING SUPPL. 65	.066535	.077477	.064106	.069453	.049252	.059088	.042194	.069999
NON-COMP.IMPORTS 66	.000769	.000769	.000792	.001068	.001404	.001599	.003409	.001278
BAL.OF PAYMNT ADJ67	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 68	.007251	.012103	.007049	.008034	.006690	.010613	.006055	.006568
SUBSIDIES 69	-.005836	-.004544	-.004660	-.004422	-.006711	-.003711	-.003424	-.003891
INDIR.TAX&GOV.SER70	.024524	.019345	.021195	.022907	.025262	.021413	.023684	.018393
WAGES & SALARIES 71	.477165	.568197	.507232	.554740	.531673	.613370	.395793	.518510
NET-INC.UNINCORP.72	.023012	.020096	.025861	.029175	.024548	.021965	.022171	.020831
SURPLUS 73	.292625	.224189	.280552	.232857	.247252	.139577	.214749	.204675
SUB TOTAL(66-73) 74	.819510	.840157	.838021	.844359	.830119	.804826	.662437	.766364

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	OTHER TRANS- PORT EQUIP. 41	ELECTRICAL APPLIANCES 42	ELECTRIC IND.EQUIP. 43	COM.EQUIP. INCL. WIRE 44	OTHER ELEC. PRODUCTS 45	CLAY,LIME, CEMENT 46	ALL OTHER NON-METALLIC 47	PETROLEUM PRODUCTS 48
INDUSTRY(ROWS)								
AGRICULTURE 1	.005449	.007308	.006042	.005651	.007194	.008526	.007205	.006072
FORESTRY 2	.006129	.005130	.004186	.003705	.004892	.006726	.006327	.002420
FISHING HUNTING 3	.000197	.000290	.000227	.000220	.000270	.000428	.000334	.000213
METAL MINES 4	.024603	.022283	.021002	.029718	.021453	.008188	.023928	.009550
NON-METAL MINES 5	.001694	.002105	.001715	.001442	.002074	.050891	.035302	.002159
COAL MINES 6	.002898	.002838	.002224	.001348	.001562	.006786	.001494	.000979
PETROLEUM NAT.GAS 7	.004733	.004825	.003960	.003780	.004222	.011805	.009439	.362049
MEAT,POULTRY PROC.8	.001343	.002219	.001747	.001489	.002162	.002491	.002142	.001119
DAIRY FACTORIES 9	.001041	.001760	.001358	.001139	.001698	.001896	.001580	.000815
FRUIT,VEG.CANNERS10	.000335	.000577	.000451	.000376	.000564	.000640	.000531	.000272
FEED,FLR.CEREAL 11	.000893	.001264	.001033	.000914	.001194	.001421	.001268	.000968
BISCUIT,BAKERIES 12	.000498	.000885	.000682	.000563	.000869	.000936	.000787	.000397
SUGAR,CONFECT.IND13	.000204	.000349	.000270	.000229	.000338	.000387	.000327	.000178
OTHER FOOD IND. 14	.001204	.001794	.001365	.001348	.001667	.002574	.002138	.001394
SOFT DRINK MFG 15	.000268	.000519	.000382	.000310	.000514	.000489	.000419	.000209
ALCOHOLIC BEV.MFG16	.000600	.001438	.000917	.000737	.001467	.000865	.000855	.000448
TOBACCO PROD.IND.17	.000025	.000031	.000023	.000020	.000024	.000032	.000026	.000015
RUBBER PROD.MFG. 18	.017472	.012298	.009229	.013535	.021516	.006287	.019286	.002870
LEATHER PROD.MFG.19	.001032	.000516	.000454	.000354	.000592	.000313	.000614	.000157
SYN.TEXTILE MILLS20	.001280	.001343	.001368	.002689	.002336	.000890	.015766	.000436
COTTON,YARN,CLOTH21	.002166	.001758	.002149	.002855	.002634	.001492	.007606	.000494
KNITTING MILLS 22	.000108	.000084	.000094	.000097	.000097	.000077	.000135	.000038
CLOTHING IND. 23	.000428	.000449	.000401	.000401	.000460	.000580	.000699	.000242
OTHER TEXTILE IND24	.003709	.002333	.002247	.002600	.002749	.002156	.003044	.000961
SAWMILLS 25	.008482	.002785	.002554	.001718	.002807	.001948	.002681	.001532



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY (COLUMNS)	OTHER TRANS- PORT EQUIP. 41	ELECTRICAL APPLIANCES 42	ELECTRIC IND. EQUIP. 43	COM. EQUIP. INCL. WIRE 44	OTHER ELEC. PRODUCTS 45	CLAY, LIME, CEMENT 46	ALL OTHER NON-METALLIC 47	PETROLEUM PRODUCTS 48
INDUSTRY (ROWS)								
FURNITURE, FIXTURES. 26	.003267	.007352	.004227	.001398	.020920	.000475	.001893	.000314
OTHER WOOD IND. 27	.006385	.004157	.003215	.002531	.003123	.002001	.004388	.002022
PULP & PAPER MILLS 28	.006138	.012873	.010414	.010503	.012306	.021266	.018109	.004198
OTHER PAPER IND. 29	.004559	.020154	.007927	.007757	.013884	.016759	.030155	.005720
PRINT. PUBLISHING 30	.009885	.019858	.014926	.012532	.020075	.013288	.012467	.007383
IRON, STEEL MILLS 31	.100604	.102613	.063092	.034833	.045079	.013471	.009788	.009940
SMELT. REFINING 32	.042245	.034741	.040608	.071919	.046367	.010065	.015738	.006337
OTH. PRIMARY METAL 33	.037727	.040163	.041859	.106132	.043862	.004748	.006162	.004141
STRUCTURAL METAL 34	.007679	.010013	.003248	.002809	.002866	.001758	.001512	.001345
METAL STAMPING 35	.012389	.055965	.035347	.016140	.014235	.003658	.010565	.007628
OTHER METAL MFG. 36	.089209	.099352	.046040	.024578	.029133	.018448	.021028	.006851
MACHINERY (NES) MFG 37	.042258	.048963	.019867	.007287	.006640	.008766	.006936	.005844
AIRCRAFT & PART MFG 38	.002902	.002234	.001392	.006613	.001833	.001058	.002863	.001006
MOTOR VEH. MFG. 39	.001336	.001923	.004284	.000813	.005373	.001181	.000931	.000528
VEHICLE PARTS MFG 40	.007719	.010091	.023558	.004959	.040514	.004158	.005876	.002187
OTH. TRANSP. EQUIP. 41	.970025	.002146	.001597	.001093	.001203	.001230	.000817	.001107
ELECT. APPLIANCE 42	.002887	.965545	.017271	.003851	.007967	.001095	.000816	.000525
ELEC. IND. EQUIP. 43	.005190	.039605	.880063	.027663	.056000	.003041	.001425	.000877
COM. EQUIP. & WIRE 44	.018337	.016160	.086150	1.021911	.162681	.003218	.002611	.001789
OTH. ELEC. PROD. IND 45	.007466	.010329	.055162	.035576	.905010	.004560	.003955	.001824
CLAY, LIME, CEMENT 46	.004385	.004117	.010195	.003226	.003764	1.082536	.029367	.002671
NON-METAL MIN. 47	.007583	.003930	.004482	.006805	.018738	.013465	1.003787	.001113
PETR. PROD. IND. 48	.010793	.010426	.008917	.008035	.009525	.025957	.020933	.998973
PLASTIC, SYN. RESIN 49	.002672	.003231	.004904	.013037	.011345	.001459	.006252	.002045
PAINT & VARNISH MFG 50	.006136	.009378	.005173	.005329	.006300	.005369	.004307	.002209



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	OTHER TRANS- PORT EQUIP. 41	ELECTRICAL APPLIANCES 42	ELECTRIC IND.EQUIP. 43	COM.EQUIP. INCL. WIRE 44	OTHER ELEC. PRODUCTS 45	CLAY,LIME, CEMENT 46	ALL OTHER NON-METALLIC 47	PETROLEUM PRODUCTS 48
PHARM.SOAP,TOILET51	.001588	.002839	.001987	.001913	.002031	.003637	.003133	.001780
OTH.CHEMICALS IND52	.009688	.014417	.011789	.016816	.019497	.020247	.037067	.042549
MISC. MFG. IND. 53	.018019	.026338	.051980	.016165	.017518	.007338	.010178	.004312
CONSTRUCTION 54	.013984	.013437	.012009	.013247	.013413	.020217	.017918	.040805
TRADE.WH.&RETAIL 55	.057225	.065489	.052393	.046989	.058231	.086739	.062074	.033499
TRANSPORT,STORAGE56	.038974	.045898	.035667	.036234	.051904	.098301	.055737	.109495
COMMUNICATIONS 57	.011990	.018888	.017352	.015810	.019034	.015462	.013564	.009157
UTILITIES 58	.024861	.022769	.018304	.018082	.018309	.043027	.063098	.022431
FIN.INSUR.RL.EST.59	.028580	.034095	.034359	.041952	.041138	.032821	.034657	.086181
BUSINESS SERVICES60	.006046	.012255	.011249	.007384	.011028	.009630	.008077	.012990
HOTEL,RESTAURANT 61	.007285	.017806	.011240	.008723	.017940	.010403	.009799	.004898
OTHER SERVICES 62	.011476	.016313	.013483	.013125	.014561	.028717	.016083	.011641
OFFICE SUPPLIES 63	.006468	.007343	.009522	.009125	.008186	.006954	.005673	.005817
ADVTG. AND TRAVEL64	.022690	.056793	.035622	.027459	.057286	.032221	.030707	.014524
OPERATING SUPPL. 65	.043727	.050273	.057355	.050149	.049129	.116359	.089234	.043672
NON-COMP.IMPORTS 66	.001726	.001842	.001368	.001664	.002209	.001189	.004650	.000538
BAL.OF PAYMNT ADJ67	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 68	.006975	.007296	.006540	.006685	.007323	.014700	.007952	.007871
SUBSIDIES 69	-.003465	-.004141	-.003450	-.003226	-.003936	-.006288	-.003807	-.004471
INDIR.TAX&GOV.SER70	.022027	.026023	.025662	.021142	.022686	.031620	.027105	.030990
WAGES & SALARIES 71	.627605	.531428	.601955	.574519	.528597	.477954	.532302	.262005
NET-INC.UNINCORP.72	.022658	.026358	.022398	.020222	.025795	.036934	.024618	.030294
SURPLUS 73	.176671	.203164	.192009	.228254	.236394	.314793	.267963	.389475
SUB TOTAL(66-73) 74	.854198	.791971	.846481	.849259	.819067	.870902	.860783	.716703

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	PLASTIC, SYN. RESINS 49	PAINT & VARNISH 50	PHARM. SOAP, TOILET 51	OTH. CHEMICAL PRODUCTS 52	MISC. MFG. PRODUCTS 53	CONSTRUCTION 54	WH. & RETAIL 55	TRANSPORT AND STORAGE 56
1	.010397	.014675	.044026	.009759	.015026	.009180	.040095	.006193
2	.011774	.005733	.009659	.005675	.013631	.021146	.006775	.005974
3	.001604	.003337	.007801	.001563	.000513	.000272	.000612	.000195
4	.006556	.007636	.004581	.015977	.024033	.012494	.002451	.002349
5	.006166	.008196	.003570	.017958	.002402	.010058	.000745	.001099
6	.002488	.001520	.001392	.004646	.001506	.001511	.000438	.000680
7	.018018	.016869	.007078	.025592	.005914	.009014	.009017	.015516
8	.003080	.004142	.037815	.003974	.008689	.001333	.004861	.001447
9	.002224	.004028	.005204	.001663	.001958	.001121	.005560	.001157
10	.000681	.001132	.002277	.000544	.000660	.000337	.001364	.000376
11	.002041	.002950	.009211	.002203	.002075	.001453	.006767	.001188
12	.000812	.001264	.002347	.000816	.000973	.000501	.002051	.000570
13	.000603	.001057	.004205	.000553	.000473	.000216	.000860	.000224
14	.013162	.028025	.066329	.012858	.003368	.001419	.004215	.001022
15	.000460	.000777	.001473	.000390	.000566	.000254	.000797	.000294
16	.002486	.003610	.008132	.002592	.001628	.000622	.001690	.000555
17	.000026	.000028	.000053	.000024	.000029	.000037	.000363	.000022
18	.023343	.015495	.003938	.008349	.018150	.006498	.005778	.007704
19	.000872	.000502	.000739	.000308	.006373	.000345	.000788	.000293
20	.025029	.002188	.002495	.001975	.008680	.002044	.003017	.000667
21	.002850	.001801	.005318	.001455	.006941	.001522	.002324	.001279
22	.000236	.000077	.000145	.000077	.000702	.000140	.000300	.000062
23	.000741	.000421	.000658	.000397	.002698	.000532	.003185	.000376
24	.005266	.002436	.009489	.003132	.016446	.005366	.004267	.001833
25	.002590	.001546	.002217	.002080	.010388	.026777	.003057	.001945

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	PLASTIC, SYN. RESINS 49	PAINT & VARNISH 50	SOAP, TOILET 51	OTH.,CHEMICAL PRODUCTS 52	MISC. MFG. PRODUCTS 53	CONSTRUCTION 54	WH.& RETAIL 55	TRADE, RETAIL AND STORAGE 56
INDUSTRY(ROWS)								
FURNITURE, FIXTRS. 26	.000438	.000396	.000566	.000486	.007189	.003700	.000909	.000495
OTHER WOOD IND. 27	.003588	.002225	.002509	.005151	.014704	.034817	.003043	.002406
PULP&PAPER MILLS 28	.045001	.017943	.031735	.015911	.031331	.010983	.013159	.004469
OTHER PAPER IND. 29	.034780	.023332	.049832	.021893	.037897	.011970	.014276	.003915
PRINT, PUBLISHING 30	.015594	.030508	.058212	.011919	.027109	.009299	.028045	.011833
IRON, STEEL MILLS 31	.009596	.015901	.009752	.015174	.028535	.043709	.006070	.006950
SMELT, REFINING 32	.013510	.014583	.007405	.036812	.034331	.021916	.003678	.003441
OTH., PRIMARY METAL 33	.011699	.005909	.004774	.009244	.026936	.037218	.004068	.004319
STRUCTURAL METAL 34	.001222	.001322	.001318	.001225	.003357	.023310	.001496	.001824
METAL STAMPING 35	.008916	.039696	.013798	.012174	.027533	.018090	.004613	.002490
OTHER METAL MFG. 36	.009729	.012604	.019952	.008288	.026272	.060185	.009709	.008911
MACHINERY(INES) MFG 37	.005446	.004442	.005743	.004901	.011683	.013723	.009365	.005031
AIRCRAFT&PART MFG 38	.001552	.001749	.001994	.005872	.007856	.001889	.001835	.002649
MOTOR VEH. MFG. 39	.000800	.000731	.000806	.000710	.001418	.001571	.008915	.001015
VEHICLE PARTS MFG 40	.002754	.003083	.002513	.003234	.008524	.005030	.003857	.005716
OTH., TRANSP., EQUIP. 41	.000803	.000944	.001214	.000786	.001854	.001765	.001338	.007396
ELECT. APPLIANCE 42	.000664	.000875	.001482	.000653	.004492	.003769	.000999	.000598
ELEC. IND. EQUIP. 43	.001087	.000907	.001040	.001081	.006004	.007006	.002165	.001135
COM. EQUIP. & WIRE 44	.002190	.001984	.002163	.002799	.007616	.019419	.008122	.002668
OTH., ELEC. PROD. IND 45	.002965	.002574	.002295	.007476	.020233	.012675	.003670	.002733
CLAY, LIME, CEMENT 46	.004070	.008155	.002552	.004374	.004900	.053651	.002446	.003424
NON-METAL MIN. 47	.002278	.018509	.021473	.004273	.012654	.011178	.002237	.001613
PETR. PROD. IND. 48	.043674	.043102	.017223	.057329	.013708	.023051	.023554	.041837
PLASTIC, SYN. RESIN 49	.795709	.046654	.004175	.021543	.036405	.002116	.002200	.000699
PAINT&VARNISH MFG 50	.019428	.953122	.002344	.006900	.005956	.007635	.002201	.002011



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	PLASTIC, SYN. RESINS 49	PAINT & VARNISH 50	PHARM. SOAP, TOILET 51	OTH.CHEMICAL PRODUCTS 52	MISC. MFG. PRODUCTS 53	CONSTRUCTION 54	WH.& RETAIL 55	TRANSPORT AND STORAGE 56
PHARM.SOAP, TOILET51	.013644	.014204	.931798	.014983	.008163	.001894	.003928	.001661
OTH.CHEMICALS IND52	.323832	.188934	.095858	1.053377	.048372	.011966	.011273	.006559
MISC. MFG. IND. 53	.013181	.006751	.023932	.011185	.869775	.010202	.009623	.004037
CONSTRUCTION 54	.024282	.016776	.016633	.022668	.014687	1.012032	.018210	.057595
TRADE,WH.&RETAIL 55	.058420	.057798	.069570	.054240	.077991	.094806	.969739	.065892
TRANSPORT,STORAGE56	.060935	.064398	.067605	.061256	.043789	.064575	.051058	1.075616
COMMUNICATIONS 57	.016701	.022625	.031821	.012611	.019150	.011501	.034272	.018374
UTILITIES 58	.043187	.023314	.018928	.059667	.019944	.013691	.021861	.010302
FIN.INSUR.RL.EST.59	.032769	.039905	.037584	.033035	.041190	.030584	.068913	.036857
BUSINESS SERVICES60	.009016	.016401	.029378	.007922	.010090	.019098	.013222	.007172
HOTEL,RESTAURANT 61	.013462	.029792	.061005	.009049	.018835	.007067	.021460	.009000
OTHER SERVICES 62	.016730	.022807	.029705	.018271	.016229	.027276	.018313	.017100
OFFICE SUPPLIES 63	.006210	.008526	.008589	.006237	.016766	.005227	.017049	.009787
ADVTG. AND TRAVEL64	.042624	.095737	.197238	.028336	.060183	.021372	.057669	.021271
OPERATING SUPPL. 65	.066351	.043783	.045154	.055975	.063661	.035616	.042556	.048310
NON-COMP.IMPORTS 66	.003631	.004126	.008131	.002959	.004532	.001042	.002199	.000970
BAL.OF PAYMNT ADJ67	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 68	.007560	.008485	.013435	.006925	.009129	.035602	.017436	.029732
SUBSIDIES 69	-.004166	-.004432	-.005398	-.004594	-.004016	-.004103	-.014503	-.031369
INDIR.TAX&GOV.SER70	.026029	.026762	.027992	.027392	.023941	.025080	.039338	.040167
WAGES & SALARIES 71	.413425	.476848	.472895	.402297	.524582	.561987	.527230	.544618
NET-INC.UNINCORP.72	.025576	.034589	.056277	.024688	.040654	.068172	.123897	.050162
SURPLUS 73	.344226	.257691	.275484	.381647	.245227	.168378	.246052	.304133
SUB TOTAL(66-73) 74	.816281	.804069	.848816	.841314	.844050	.856157	.941649	.938414



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS) INDUSTRY(ROWS)	COMMUNI- CATIONS 57	UTILITIES 58	FINANCE,INS. REAL ESTATE 59	BUSINESS SERVICES 60	ACCOMMODA- TION, MEALS 61	OTHER SERVICES 62	OFFICE SUPPLIES 63	ADVTG. AND TRAVEL 64
AGRICULTURE 1	.002683	.003286	.036947	.004572	.114737	.009112	.011245	.044890
FORESTRY 2	.002051	.003662	.003147	.002087	.021818	.003981	.031394	.019124
FISHING HUNTING 3	.000175	.000086	.000189	.000262	.003613	.003252	.000317	.001582
METAL MINES 4	.001153	.005987	.003999	.001357	.003570	.003931	.003426	.002613
NON-METAL MINES 5	.000516	.000764	.001128	.000345	.001473	.001020	.001547	.001112
COAL MINES 6	.000170	.004689	.000267	.000196	.000455	.000496	.001030	.000589
PETROLEUM NAT.GAS 7	.002388	.005366	.005276	.002481	.006910	.005387	.005742	.005784
MEAT,POULTRY PROC.8	.000622	.000648	.001247	.001480	.064906	.002294	.002362	.023094
DAIRY FACTORIES 9	.000493	.000508	.000995	.001171	.054820	.001691	.001646	.019269
FRUIT,VEG.CANNERS10	.000158	.000168	.000313	.000393	.018817	.000444	.000498	.006619
FEED,FLR.CEREAL 11	.000425	.000475	.003511	.000726	.020874	.001713	.001881	.008174
BISCUIT,BAKERIES 12	.000242	.000253	.000531	.000618	.030762	.000643	.000778	.010735
SUGAR,CONFECT.IND13	.000097	.000103	.000274	.000234	.009719	.000329	.000372	.003728
OTHER FOOD IND. 14	.000449	.000461	.001078	.000918	.023484	.002771	.001955	.009933
SOFT DRINK MFG 15	.000137	.000164	.000268	.000385	.012565	.000362	.000396	.007183
ALCOHOLIC BEV.MFG16	.000346	.000281	.000700	.001177	.001052	.000934	.001123	.024776
TOBACCO PROD.IND.17	.000008	.000009	.000017	.000011	.000207	.000019	.000049	.000089
RUBBER PROD.MFG. 18	.001615	.001484	.002210	.002074	.002997	.004153	.029718	.003605
LEATHER PROD.MFG.19	.000138	.000087	.000208	.000258	.000306	.001066	.003401	.002501
SYN.TEXTILE MILLS20	.000388	.000260	.000457	.000645	.001575	.001668	.003197	.001803
COTTON,YARN,CLOTH21	.000498	.000272	.000491	.000522	.005610	.003389	.003411	.002803
KNITTING MILLS 22	.000043	.000023	.000094	.000031	.000181	.000124	.000178	.000134
CLOTHING IND. 23	.000317	.000146	.000324	.000175	.001400	.000458	.000817	.000775
OTHER TEXTILE IND24	.001262	.000629	.001123	.000812	.004176	.004138	.005494	.002922
SAWMILLS 25	.001291	.003610	.002646	.000657	.001770	.002368	.004992	.002470

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	COMMUNI- CATIONS 57	UTILITIES 58	FINANCE,INS. REAL ESTATE 59	BUSINESS SERVICES 60	ACCOMMODA- TION, MEALS 61	OTHER SERVICES 62	OFFICE SUPPLIES 63	ADVTG. AND TRAVEL 64
INDUSTRY(ROWS)								
FURNITURE, FIXTRS. 26	.000294	.000333	.000525	.000216	.000713	.001720	.000795	.000570
OTHER WOOD IND. 27	.001724	.002371	.003319	.000842	.001927	.006789	.003103	.002117
PULP&PAPER MILLS 28	.003974	.005994	.004752	.006144	.013219	.007473	.133406	.052648
OTHER PAPER IND. 29	.002490	.001567	.003685	.003637	.014267	.006119	.120377	.014587
PRINT.PUBLISHING 30	.015634	.004726	.014667	.022375	.012783	.019489	.535787	.273671
IRON,STEEL MILLS 31	.002859	.008395	.004891	.003305	.004509	.006672	.006493	.004388
SMELT,REFINING 32	.001931	.012461	.003166	.002157	.003032	.004309	.005770	.003273
OTH.PRIMARY METAL 33	.002684	.002828	.003892	.002337	.002351	.003756	.006366	.003563
STRUCTURAL METAL 34	.001143	.001525	.002148	.000780	.000978	.004070	.001150	.001018
METAL STAMPING 35	.001233	.001566	.002262	.001322	.005471	.002582	.004266	.003814
OTHER METAL MFG. 36	.004273	.005450	.007552	.004513	.006347	.015071	.012634	.006262
MACHINERY(INES)MFG37	.002191	.003068	.004190	.003917	.004398	.008243	.004861	.004149
AIRCRAFT&PART MFG38	.000588	.000441	.000622	.032993	.000843	.002186	.001494	.003571
MOTOR VEH. MFG. 39	.000299	.000326	.000422	.000319	.000768	.001328	.001371	.000834
VEHICLE PARTS MFG40	.000991	.001068	.001321	.001060	.001975	.002157	.002409	.002081
OTH.TRANSP.EQUIP.41	.000694	.000358	.000436	.011002	.000797	.002176	.000904	.002070
ELECT.APPLIANCE 42	.000349	.000378	.000547	.000352	.000530	.002287	.000842	.000537
ELEC.IND. EQUIP. 43	.000708	.000989	.000961	.000518	.000864	.001255	.001134	.000834
COM.EQUIP.&WIRE 44	.007900	.001651	.002295	.002655	.001832	.003142	.002469	.002415
OTH.ELEC.PROD.IND45	.001774	.001336	.001828	.000983	.001667	.002831	.002569	.001812
CLAY,LIME,CEMENT 46	.002258	.003413	.004709	.000745	.002717	.003654	.002135	.002059
NON-METAL MIN. 47	.000744	.000917	.001334	.000704	.002519	.001972	.001843	.002736
PETR. PROD. IND. 48	.006207	.012957	.009445	.006322	.017961	.013121	.013694	.014685
PLASTIC, SYN.RESIN49	.000388	.000317	.000596	.000486	.001351	.001337	.004110	.001511
PAINT&VARNISH MFG50	.000846	.001206	.003172	.000945	.001756	.002146	.002117	.001611

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMMODITY(COLUMNS)	COMMUNI- CATIONS 57	UTILITIES 58	FINANCE, INS. REAL ESTATE 59	BUSINESS SERVICES 60	ACCOMMODA- TION, MEALS 61	OTHER SERVICES 62	OFFICE SUPPLIES 63	ADVTG. AND TRAVEL 64
INDUSTRY(ROWS)	57	58	59	60	61	62	63	64
PHARM.SOAP,TOILET51	.001165	.000936	.001300	.003422	.004457	.017940	.002296	.003204
OTH.CHEMICALS IND52	.002437	.003162	.004342	.007079	.008426	.011090	.027466	.011307
MISC. MFG. IND. 53	.002288	.001626	.002822	.003908	.004355	.014181	.046984	.013319
CONSTRUCTION 54	.039412	.059210	.083955	.008562	.019942	.032894	.013381	.020343
TRADE,WH.&RETAIL 55	.022115	.021214	.030584	.020487	.118978	.064525	.127007	.088625
TRANSPORT,STORAGE56	.069032	.016452	.016554	.019667	.049690	.040564	.067669	.131320
COMMUNICATIONS 57	1.024093	.007742	.013865	.066843	.015109	.026391	.022216	.094701
UTILITIES 58	.005754	1.206663	.007157	.005638	.016335	.016381	.017831	.013966
FIN.INSUR.RL.EST.59	.023339	.036225	1.007435	.039491	.055755	.110568	.033258	.041205
BUSINESS SERVICES60	.007137	.007710	.010444	.939408	.007748	.011539	.007696	.077993
HOTEL,RESTAURANT 61	.004405	.003445	.007875	.014840	.926654	.010831	.012577	.318541
OTHER SERVICES 62	.035243	.007207	.016706	.046180	.030308	.920637	.018643	.047615
OFFICE SUPPLIES 63	.008426	.002581	.013663	.015860	.006393	.014335	1.008230	.008179
ADVTG. AND TRAVEL64	.013578	.010728	.021607	.047808	.030120	.034224	.038890	1.034708
OPERATING SUPPL. 65	.017039	.025921	.030457	.024087	.046251	.052796	.041769	.039340
NON-COMP.IMPORTS 66	.000316	.000259	.000478	.000492	.011703	.001400	.002901	.004704
BAL.OF PAYMNT ADJ67	.000000	.000000	.000000	.000000	.000000	.000000	.000000	.000000
COMMODITY TAXES 68	.007596	.005528	.006403	.006263	.011255	.013398	.062814	.038771
SUBSIDIES 69	-.062771	-.003842	-.004118	-.004898	-.005004	-.003859	-.004980	-.010848
INDIR.TAX&GOV.SER70	.033479	.031621	.177845	.020287	.044425	.038712	.022684	.031491
WAGES & SALARIES 71	.539714	.291684	.254053	.498957	.488323	.418190	.462073	.477480
NET-INC.UNINCORP.72	.023295	.015310	.135022	.331845	.173749	.279301	.039207	.110865
SURPLUS 73	.430166	.626136	.397743	.112097	.196746	.194891	.205274	.216039
SUB TOTAL(66-73) 74	.971795	.966696	.967426	.965042	.921197	.942033	.789974	.868503



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMM.65.FINAL DEMAND OPERATING SUPPLIES(D)		NET-EXPORTS		RE-EXPORTS		IMPORTS		INVENTORY CHANGE		OTHER DEMAND		IMPORT COEF.		RE-EXPORT COEF.	
		65	66	67	68	69	70	71	72						
AGRICULTURE	1	.036737	803.1	1.0	-252.0	-400.6	486.2	.092917	.001283						
FORESTRY	2	.006085	42.9	1.0	-14.7	-12.0	38.3	.016899	.023846						
FISHING HUNTING	3	.001517	23.9	.9	-18.0	.5	5.8	.147219	.035891						
METAL MINES	4	.008893	519.0	.0	-126.5	19.4	.0	.158091	.000089						
NON-METAL MINES	5	.002161	153.0	4.3	-56.4	1.3	12.1	.298327	.027155						
COAL MINES	6	.001204	8.1	.0	-119.4	2.4	47.0	.664191	.000246						
PETROLEUM NAT.GAS	7	.007910	208.5	.0	-368.4	5.5	154.7	.383179	.000139						
MEAT,POULTRY PROC.	8	.014853	69.7	1.9	-76.1	19.2	1138.1	.046058	.026400						
DAIRY FACTORIES	9	.010687	24.2	.0	-12.1	9.0	706.1	.013327	.001404						
FRUIT,VEG.CANNERS	10	.003744	8.8	.6	-110.8	16.7	335.9	.251640	.059174						
FEED,FLR.CEREAL	11	.006232	68.9	.0	-7.7	2.6	90.2	.015914	.000189						
BISCUIT,BAKERIES	12	.005346	3.6	.0	-11.8	5.7	396.9	.025373	.007267						
SUGAR,CONFECT.IND	13	.002094	1.8	.2	-33.8	3.2	198.0	.110908	.087369						
OTHER FOOD IND.	14	.008980	164.0	2.0	-139.6	9.2	313.5	.226915	.012152						
SOFT DRINK MFG	15	.002542	.1	.0	-4.7	1.4	133.8	.026263	.109756						
ALCOHOLIC BEV.MFG	16	.001332	88.6	.2	-61.0	21.6	322.5	.151022	.002465						
TOBACCO PROD.IND.	17	.000157	28.1	.0	-9.2	4.7	231.8	.029431	.000427						
RUBBER PROD.MFG.	18	.040640	7.2	.6	-59.8	1.4	107.5	.165022	.076528						
LEATHER PROD.MFG.	19	.001280	15.3	.5	-44.6	2.6	243.4	.137440	.034396						
SYN.TEXTILE MILLS	20	.003317	20.1	.7	-66.8	1.6	14.4	.230048	.032830						
COTTON,YARN,CLOTH	21	.004801	10.9	.8	-144.0	3.3	42.3	.395095	.065197						
KNITTING MILLS	22	.000368	1.7	.4	-39.7	3.6	202.3	.153861	.174122						
CLOTHING IND.	23	.003465	8.0	.6	-61.7	14.8	816.4	.067937	.067937						
OTHER TEXTILE IND	24	.008391	11.8	2.0	-196.4	10.3	196.0	.322594	.147233						
SAWMILLS	25	.002837	354.9	.1	-39.2	13.7	6.7	.100925	.000234						



TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMM.65, FINAL DEMAND OPERATING SUPPLIES(D)	NET-EXPORTS	RE-EXPORTS	IMPORTS	INVENTORY CHANGE	OTHER FINAL DEMAND	IMPORT COEF.	RE-EXPORT COEF.
65	66	67	68	69	70	71	72
FURNITURE, FIXTRS. 26	.001585	2.3	.2	-35.2	7.0	.087293	.067851
OTHER WOOD IND. 27	.003038	39.7	.6	-32.5	9.7	.091100	.014422
PULP&PAPER MILLS 28	.015593	1113.9	.3	-65.0	2.4	.108473	.000255
OTHER PAPER IND. 29	.013248	4.3	.5	-43.2	6.8	.071136	.102393
PRINT. PUBLISHING 30	.018127	16.1	2.4	-144.7	6.4	.145028	.130049
IRON, STEEL MILLS 31	.026305	112.9	1.0	-122.2	4.3	.147879	.008729
SMELT. REFINING 32	.014557	823.1	11.0	-77.4	-1.5	.120877	.013130
OTH. PRIMARY METAL 33	.015316	60.2	.6	-101.0	1.7	.173067	.009270
STRUCTURAL METAL 34	.004546	4.4	.3	-23.9	.8	.097146	.061853
METAL STAMPING 35	.012989	3.3	1.0	-61.9	3.7	.162890	.238296
OTHER METAL MFG. 36	.068386	29.9	4.9	-255.8	1.6	.216197	.141483
MACHINERY (INES) MFG 37	.059201	154.0	31.4	-947.7	9.0	.563621	.169399
AIRCRAFT & PART MFG 38	.002357	99.2	33.0	-211.9	10.6	.418775	.249603
MOTOR VEH. MFG. 39	.006697	27.0	2.1	-230.9	18.5	.205467	.072178
VEHICLE PARTS MFG 40	.029786	15.6	4.5	-367.8	2.1	.529069	.223546
OTH. TRANSP. EQUIP. 41	.002707	17.8	.7	-41.9	-1.2	.178846	.037520
ELECT. APPLIANCE 42	.004995	6.4	.5	-105.0	4.2	.307260	.067674
ELEC. IND. EQUIP. 43	.011069	15.0	2.6	-89.3	.8	.291391	.149305
COM. EQUIP. & WIRE 44	.015767	40.9	3.0	-124.6	15.2	.250010	.069450
OTH. ELEC. PROD. IND 45	.023402	5.8	1.2	-91.7	2.4	.250643	.167462
CLAY, LIME, CEMENT 46	.003190	10.8	.3	-69.8	7.2	.134998	.025865
NON-METAL MIN. 47	.008924	29.5	.6	-84.5	5.1	.306153	.018800
PETR. PROD. IND. 48	.018630	10.2	.3	-137.8	9.7	.100851	.024351
PLASTIC, SYN. RESIN 49	.004954	30.7	.2	-65.5	2.1	.398424	.007636
PAINT & VARNISH MFG 50	.029447	1.3	.1	-7.5	1.2	.045611	.070370

TABLE 11 IMPACT TABLE WITH IMPORT LEAKAGES - AGGREGATION M (SEE CHAPTER 4)

COMM. 65, FINAL DEMAND OPERATING SUPPLIES (D) 65	NET-EXPORTS 66	RE-EXPORTS 67	IMPORTS 68	INVENTORY CHANGE 69	OTHER DEMAND 70	IMPORT COEF. 71	RE-EXPORT COEF. 72
PHARM. SOAP, TOILET 51	.025740	12.1	-58.1	7.9	319.1	.124212	.047967
OTH. CHEMICALS IND 52	.042604	171.1	-264.3	6.1	79.1	.310381	.015559
MISC. MFG. IND. 53	.028012	40.4	-361.0	13.3	533.0	.386028	.205597
CONSTRUCTION 54	.015244	.0	.0	.0	5911.9	.000000	.000000
TRADE, WH. & RETAIL 55	.348393	111.8	.0	24.8	4857.1	.000000	.000000
TRANSPORT, STORAGE 56	.059353	558.2	-80.9	-4.7	1159.2	.026817	.000000
COMMUNICATIONS 57	.022578	24.9	-17.6	.0	443.2	.016750	.000000
UTILITIES 58	.017568	18.1	-15.9	-.3	476.4	.012536	.000332
FIN. INSUR. RL. EST. 59	.043194	19.7	-83.4	.0	5097.2	.012048	.000000
BUSINESS SERVICES 60	.009264	8.0	-72.1	.0	197.2	.096999	.000000
HOTEL, RESTAURANT 61	.014235	.0	.0	.0	1242.2	.000000	.000000
OTHER SERVICES 62	.067648	6.5	-120.3	.0	1378.4	.054336	.000000
OFFICE SUPPLIES 63	.009586	.0	.0	.0	.0	.000000	.000000
ADVTG. AND TRAVEL 64	.041702	.0	.0	.0	.0	.000000	.000000
OPERATING SUPPL. 65	1.039192	.0	.0	.0	.0	.000000	.000000
NON-COMP. IMPORTS 66	.005424						
BAL. OF PAYMNT ADJ 67	.000000						
COMMODITY TAXES 68	.039085						
SUBSIDIES 69	-.007521						
INDIR. TAX & GOV. SERV 70	.025803						
WAGES & SALARIES 71	.393955						
NET-INC. UNINCORP. 72	.075380						
SURPLUS 73	.193442						
SUB TOTAL (66-73) 74	.725567						

T A B L E 12

Valuation Conversion Coefficients, 1961 - Aggregation M  
(See Chapter 4 for definitions and qualifications)

Commodity	Trade & Transportation Margins to F.O.B. Point of Shipment as a pro- portion of Trade of Canada Exports	Transportation Margins from F.O.B. Point of Shipment as a proportion of Trade of Canada Exports	Transportation Margins to Canadian Border as a proportion of Trade of Canada Imports	Import Duties as a proportion of Trade of Canada Imports	Trade & Transportation Margins as a proportion of Other Final Demand at Purchasers' Prices	Commodity Taxes as a proportion of Other Final Demand at Purchasers' Prices
	1	2	3	4	5	6
1 Agriculture Products	.103820	.001691	.204918	.053226	.282399	-
2 Forestry Products	.065710	.010204	.058092	-	.192366	-
3 Fish & Fur	.020942	.026621	.058414	.022130	.388486	-
4 Metal Ores & Conc.	.065924	.018694	.119372	.000026	-	-
5 Non-Metal Minerals	.038820	.047152	.603772	.019179	.352919	-
6 Coal	.051969	.537171	.608138	.041837	.385092	-
7 Oil and Natural Gas	-	.245291	.230439	.000601	.432555	-
8 Meat Products	.049874	.000358	.054452	.059299	.192768	.003256
9 Dairy Products	.003827	.019956	.063524	.077724	.197355	-
10 Fruit & Veg. Products	.025008	-	.071733	.106982	.228132	.002702
11 Feed, Flour Cereals	.026572	.001384	.246402	.112847	.257135	-
12 Bakery Products	.045867	.005333	.052668	.102496	.250944	.000177
13 Sugar, Confect.	-	.018472	.083442	.071209	.302959	.046066
14 Other Food Products	.041789	.004029	.087162	.078107	.264602	.002306
15 Soft Drinks	-	.024390	.041017	.150730	.117444	.074678
16 Alcoholic Beverages	.000518	.016382	.043171	1.252324	.380538	.257037
17 Tobacco	-	.028589	.011472	.342403	.142160	.545053
18 Rubber Products	.202621	.000307	.021034	.184628	.296059	.062138
19 Leather Products	.022958	.014218	.034349	.201630	.330206	.063264
20 Synthetic Textiles	.008578	.018538	.026736	.214632	.378678	.048959
21 Cotton Yarn, Cloth	.038294	.029008	.033571	.212295	.402225	.073114
22 Knitted Products	.022567	.016455	.022216	.287023	.392711	.058513
23 Clothing	.012927	.019506	.036346	.244088	.379587	.056886
24 Other Textiles	.016624	.033532	.055460	.154683	.313339	.059196
25 Sawmill Products	.083248	.051647	.171469	.012250	.121483	-
26 Furniture, Fixtures	.004423	.014475	.024695	.222116	.283814	.064988
27 Other Wood Products	.055847	.010218	.075186	.135395	.195268	.042195
28 Pulp & Paper	.031608	.041943	.064320	.139251	.203399	.074213
29 Other Paper Products	-	.016649	.048417	.184659	.370131	.051444
30 Printed matter	.066017	.010429	.011425	.049136	.187419	.020958
31 Steel Mill Products	.029348	.023142	.120749	.075171	-	-
32 Smelt. & Ref. Products	.027602	.014396	.133994	.021416	-.000422	-
33 Other Primary Metal	.037650	.003819	.048639	.104962	.044490	-
34 Structural Metal	-	.029554	.034785	.166373	.174768	.066084
35 Metal Stampings	.028207	.020246	.026840	.126594	.189161	.064474
36 Other Metal Products	.065479	.016128	.027413	.165726	.240945	.044473
37 Machinery (N.E.S.)	.109030	.016791	.011106	.075441	.196866	.030504
38 Aircraft & Parts	.019749	.004058	.015411	.001800	.033081	.058571
39 Motor Vehicles	.011119	.008297	.020703	.113174	.197342	.094044
40 Vehicle Parts	.232185	-	.017644	.065457	.542400	.032913
41 Other Transport Equip.	.011807	.010151	.012597	.082144	.094568	.035338
42 Electrical Appliances	.023124	.040289	.018243	.181309	.240905	.072568
43 Electric Ind. Equip	.035640	.024910	.010735	.138714	.105787	.046840
44 Com. Equip. Incl. Wire	.075572	.013982	.009272	.132209	.141119	.087099
45 Other Elec. Products	.019983	.028770	.009321	.186369	.319105	.109716
46 Clay, Lime, Cement	.051543	.065647	.127666	.128674	.341212	.057505
47 All Other Non-Metallic	.072146	.000740	.074522	.097878	.324255	.058079
48 Petroleum Products	.099725	.019687	.286545	.064770	.319158	.240440

T A B L E 12 (Cont'd)

Valuation Conversion Coefficients, 1961 - Aggregation M  
(See Chapter 4 for definitions and qualifications)

Commodity	Trade & Transportation Margins to F.O.B. Point of Shipment as a pro- portion of Trade of Canada Exports	Transportation Margins from F.O.B. Point of Shipment as a proportion of Trade of Canada Exports	Transportation Margins to Canadian Border as a proportion of Trade of Canada Imports	Import Duties as a proportion of Trade of Canada Imports	Trade & Transportation Margins as a proportion of Other Final Demand at Purchasers' Prices	Commodity Taxes as a proportion of Other Final Demand at Purchasers' Prices
	1	2	3	4	5	6
49 Plastic, Syn. Resins	.112046	.007182	.016234	.060314	.163333	.012500
50 Paint & Varnish	.042553	-	.016040	.170624	.410707	.002370
51 Pharm. Soap, Toilet	.049332	.001119	.022213	.133317	.401257	.061446
52 Oth. Chemical Products	.042494	.012132	.076669	.066521	.212114	.067360
53 Misc. Mfg. Products	.102160	.044146	.028482	.120918	.317965	.055912
54 Construction	-	-	-	-	-	-
55 Trade, Wh. & Retail	-	-	-	-	-	-
56 Transport and Storage	-	-	-	-	-	-
57 Communications	-	-	-	-	-	-
58 Utilities	.065687	-	.270335	-	-	-
59 Finance, Ins. Real Estate	-	-	-	-	-	-
60 Business Services	-	-	-	-	-	-
61 Accommodation, Meals	-	-	-	-	-	-
62 Other Services	-	-	-	-	-	-
63 Office Supplies	-	-	-	-	-	.018771
64 Advtg. and Travel	-	-	-	-	-	-
65 Operating Supplies	-	-	-	-	-	-
66 Non-Comp. Imports	.080756	-	.211814	.039720	-	-

















